Hazard Analysis and Risk-Based Preventive Controls for Human Food: Draft Guidance for Industry¹

This draft guidance, when finalized, will represent the current thinking of the Food and Drug Administration (FDA or we) on this topic. It does not establish any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations. To discuss an alternative approach, contact FDA's Technical Assistance Network by submitting the form available at

http://www.fda.gov/Food/GuidanceRegulation/FSMA/ucm459719.htm.

Appendix 1: Potential Hazards for Foods and Processes

Appendix Organization

This appendix contains information on the potential biological, chemical, and physical hazards that are food-related and process related. The potential hazard information presented covers the following 17 food (including ingredients and raw materials) categories:

- Bakery
- Beverage
- Chocolate and Candy
- Dairy
- Dressings and Condiments
- Egg
- Food Additives
- · Fruits and Vegetables
- Game Meat
- Grains
- Multi-Component Foods (such as a refrigerated entrée or a sandwich)
- Nuts

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¹ This guidance has been prepared by the Office of Food Safety in the Center for Food Safety and Applied Nutrition at the U.S. Food and Drug Administration.

- Oil
- Snack Foods
- Soups
- Spice
- Sweeteners

To help you to identify food-related and process-related hazards for the food categories listed above, this appendix contains three series of tables:

- **Tables 1A** through **1Q** contain information that you should consider for potential food-related biological hazards.
- Tables 2A through 2Q contain information that you should consider for potential food-related chemical hazards.
- **Tables 3A** through **3Q** contain information that you should consider for potential process-related biological, chemical and physical hazards.

How to Use the Tables in Appendix 1

Information provided in each table is organized to describe:

- Food Categories
- Food Subcategories
- Hazards
- Example Products

Potential hazards that you should consider for each food subcategory are indicated by an "X" in the column for the hazard being assessed.

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Table 3Q: Information that you should consider for potential process-related biological, chemical, and physical hazards for Food Sweeteners (Nutritive and Non-Nutritive)

Biological Hazards Tables

Table 1A: Information that you should consider for potential ingredient or other food-related biological hazards for Bakery Items

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|---|----|--|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 1a | Bread, Biscuits, Rolls, Cookie Dough, Pizza/Pie Crust | Refrigerated | | | | | | x | X | x | | | | | Buttermilk biscuits, Cinnamon rolls, Croissants, Pizza Crust, Chocolate Chip Cookie Dough, Puff Pastry, Phyllo |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 1b | Bread, Biscuits, Rolls, Cookie Dough, Pizza/Pie Crust | Frozen | | | | | | x | x | x | | | | | Buttermilk biscuits, Cinnamon rolls, Croissants, Pizza Crust, Chocolate Chip Cookie Dough, Puff Pastry, Phyllo |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 2a | Parbaked/ParBoiled Bread, Biscuits, Rolls, Pizza/Pie Crust | Refrigerated | | | | | | х | х | х | | | | | Artisan breads, Bagels, Biscuits, Rolls, Croissant, Pizza Crust |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 2b | Parbaked/ParBoiled Bread, Biscuits, Rolls, Pizza/Pie Crust | Frozen | | | | | | х | х | х | | | | | Artisan breads, Bagels, Biscuits, Rolls, Croissant, Pizza Crust |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 3 | Liquid Batter | Refrigerated | | | | | | x | х | х | | | | | Pancake batter, Brownie batter, Waffle batter, and Doughnut batter |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--|----|--------------------------------------|--|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|---|
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 4 | Fruit pies/cobblers | Frozen | | | | | | X | х | х | | X | | | Apple/Cherry/Peach Cobbler; Apple, Cherry/ Mixed Berries/etc. Pies |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 5 | Custard pies | Frozen | | | | | | x | X | х | | X | | | Pumpkin and Sweet Potato Pies |
| Fully-Baked Without Filling, No Topping/Frosting | 6 | Bread, Whole/Pre-sliced | Shelf-Stable, Refrigerated or Frozen | | | | | | x | X | | | | | | Breads (e.g., White, Wheat, Rye, Oat Bran, Pumpernickel), Cheese Breads, Raisin Breads; Cornbread, Plain or Flavored Biscuits, Bagels, Rolls, Croissants, Pita Bread, Pumpkin Bread |
| Fully-Baked Without Filling, No Topping/Frosting | 7a | Cakes/Muffins/Brow nies/ Doughnut | Shelf-Stable | | | | | | х | х | | | | | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |
| Fully-Baked Without Filling, No Topping/Frosting | 7b | Cakes/Muffins/Brow nies/ Doughnut | Refrigerated | | | | | | х | х | | | | | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |

| | | | Brajer | _ , , <u>, </u> | | | | | _ | | | | | | _ | |
|--|----|--------------------------------------|--|---|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
| Fully-Baked Without Filling, No Topping/Frosting | 7c | Cakes/Muffins/Brow nies/ Doughnut | Frozen | | | | | | x | x | | | | | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |
| Fully-Baked Without Filling, No Topping/Frosting | 8 | Cookies | Shelf-Stable | | | | | | X | x | | | X | | | Chocolate Chip, Peanut Butter, Biscotti, Lemon, Butter Cookies, Brownies, Wafers, Oatmeal Cookies, Fruit, Cream or Chocolate- Filled Crisps/Bars, Wafers |
| Fully-Baked Without Filling, No Topping/Frosting | 9a | Other Pastry Products | Refrigerated | | | | | | x | x | x | | X | | | French Toast, Blueberry Pancakes, Waffles |
| Fully-Baked Without Filling, No Topping/Frosting | 9b | Other Pastry Products | Frozen | | | | | | X | X | x | | X | | | French Toast, Blueberry Pancakes, Waffles |
| Fully-Baked Including Fillings, No Topping/Frosting | 10 | Bread, Whole/Pre- sliced | Shelf-Stable, Refrigerated or Frozen | | | | | | x | x | | | | | | Cheese Breads, Raisin Breads; Cornbread, Flavored Biscuits, Chocolate Croissants, Pumpkin Bread, Banana Nut Bread |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | <i>Brucella</i> spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|---|-----|--------------------------------------|-----------------------|-----------------|-----------------------|----------------|----------------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|---|
| | | | | 9 | Clost |) | | Can | е |)5 | 7'' | | | 9 | ī'n | |
| Fully-Baked Including Fillings, No Topping/Frosting | 11a | Cakes/Muffins/Brow nies/ Doughnut | Shelf-Stable | | X | | | | X | X | | | | | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |
| Fully-Baked Including Fillings, No Topping/Frosting | 11b | Cakes/Muffins/Brow nies/ Doughnut | Refrigerated | | X | | | | X | X | | | | | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |
| Fully-Baked Including Fillings, No Topping/Frosting | 11c | Cakes/Muffins/Brow nies/ Doughnut | Frozen | | | | | | X | X | | | | | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |
| Fully-Baked Including Fillings, No Topping/Frosting | 12a | Fruit Pies/Cobblers | Shelf-Stable | | | | | | X | X | X | | X | | | Various Fruit Pies (Apple/Cherry/Blueberry, Rhubarb, Mixed Berry/etc.) |
| Fully-Baked Including Fillings, No Topping/Frosting | 12b | Fruit Pies/Cobblers | Refrigerated | | | | | | X | Х | Х | | X | | | Various Fruit Pies (Apple/Cherry/Blueberry, Rhubarb, Mixed Berry/etc.) |
| Fully-Baked Including Fillings, No Topping/Frosting | 12c | Fruit Pies/Cobblers | Frozen | | | | | | X | х | х | | X | | | Various Fruit Pies (Apple/Cherry/Blueberry, Rhubarb, Mixed Berry/etc.) |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--|-----|--------------------------|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|--|
| Fully-Baked Including Fillings, No Topping/Frosting | 13a | Custard/Crème Pie | Shelf-Stable | | | | | | X | X | X | | X | | | Pumpkin/Sweet Potato, Lemon Pie, Key Lime Pie; Coconut Custard |
| Fully-Baked Including Fillings, No Topping/Frosting | 13b | Custard/Crème Pie | Refrigerated | | | | | | X | x | X | | X | | | Pumpkin/Sweet Potato, Lemon Pie, Key Lime Pie; Coconut Custard |
| Fully-Baked Including Fillings, No Topping/Frosting | 13c | Custard/Crème Pie | Frozen | | | | | | X | x | x | | X | | | Pumpkin/Sweet Potato, Lemon Pie, Key Lime Pie; Coconut Custard |
| Fully-Baked Including Fillings, No Topping/Frosting | 14 | Cookies | Shelf-Stable | | | | | | x | x | | | x | | | Chocolate Chip, Peanut Butter, Biscotti, Lemon, Butter Cookies, Brownies, Wafers, Oatmeal Cookies, Fruit, Cream or Chocolate- Filled Crisps/Bars, Wafers |
| Fully-Baked Including Fillings, No Topping/Frosting | 15a | Other Pastry Products | Refrigerated | | | | | | X | х | X | | х | | | French Toast, Blueberry Pancakes, Waffles |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--|-----|--------------------------------------|--|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Fully-Baked Including Fillings, No Topping/Frosting | 15b | Other Pastry Products | Frozen | | | | | | X | X | X | | X | | | French Toast, Blueberry Pancakes, Waffles |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 16 | Bread, Whole/Pre-sliced | Shelf-Stable, Refrigerated or Frozen | | | | | | X | x | x | | X | | | Bread with Drizzles/Frosting, Seeds/Nuts on Top, |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 17a | Cakes/Muffins/Brow nies/ Doughnut | Shelf-Stable | | x | | | | x | x | x | | x | | | Cakes/Muffin/Cheesecak es with Frosting and Topping (cream, nuts, confectionery and dried fruits, etc.); Black Forest Torte |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 17b | Cakes/Muffins/Brow nies/ Doughnut | Refrigerated | | x | | | | x | x | x | | x | | | Cakes/Muffin/Cheesecak es with Frosting and Topping (cream, nuts, confectionery and dried fruits, etc.); Black Forest Torte |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--|-----|--------------------------------------|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 17c | Cakes/Muffins/Brow nies/ Doughnut | Frozen | | | | | | x | х | х | | x | | | Cakes/Muffin/Cheesecak es with Frosting and Topping (cream, nuts, confectionery and dried fruits, etc.); Black Forest Torte |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 18a | Fruit Pies/Cobblers | Shelf-Stable | | | | | | x | x | x | | X | | | Fruit Pies/Cobblers with Drizzles and Cream Topping |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 18b | Fruit Pies/Cobblers | Refrigerated | | | | | | Х | Х | х | | х | | | Fruit Pies/Cobblers with Drizzles and Cream Topping |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 18c | Fruit Pies/Cobblers | Frozen | | | | | | Х | х | х | | х | | | Fruit Pies/Cobblers with Drizzles and Cream Topping |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 19a | Custard/Crème Pie | Shelf-Stable | | | | | | x | x | x | | x | | | Pumpkin and Sweet Potato Pies with Whipped Cream, Key Lime Pie, Coconut Custard Pie, Fruit Topped Cheesecake |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--|-----|--------------------------|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|--|
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 19b | Custard/Crème Pie | Refrigerated | | | | | | x | x | x | | x | | | Pumpkin and Sweet Potato Pies with Whipped Cream, Key Lime Pie, Coconut Custard Pie, Fruit Topped Cheesecake |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 19c | Custard/Crème Pie | Frozen | | | | | | x | x | х | | x | | | Pumpkin and Sweet Potato Pies with Whipped Cream, Key Lime Pie, Coconut Custard Pie, Fruit Topped Cheesecake |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 20 | Cookies | Shelf-Stable | | | | | | X | X | X | | x | | | Cream-Filled Sandwich Cookies |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 21a | Other Pastry Products | Refrigerated | | | | | | x | x | x | | x | | | Danishes, Éclair, Cream Puffs, Cannoli, Doughnuts, Toaster Pastries, Apple Turnovers, Baklava with Additions after Baking |

| | | | Draje i | | | | | | | | | | | | | |
|--|-----|-------------------------------------|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|--|
| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 21b | Other Pastry Products | Frozen | | | | | | x | x | x | | x | | | Danishes, Éclair, Cream Puffs, Cannoli, Doughnuts, Toaster Pastries, Apple Turnovers, Baklava with Additions after Baking |
| Assembled Cream Pies | 22a | Custard/Crème Pie | Refrigerated | | | | | | X | x | x | | x | | | French Silk, Chocolate Cream Pie, Coconut Cream Pie, Peanut Butter Pie, Meringue Pies |
| Assembled Cream Pies | 22b | Custard/Crème Pie | Frozen | | | | | | X | X | X | | X | | | French Silk, Chocolate Cream Pie, Coconut Cream Pie, Peanut Butter Pie, Meringue Pies |
| Other Bakery Products | 23a | Tortillas, Soft Shell/Hard Shell | Shelf Stable | | | | | | X | X | | | | | | Soft (Corn, Wheat), Hard Type, Baked, Fried |
| Other Bakery Products | 23b | Tortillas, Soft Shell/Hard Shell | Refrigerated | | | | | | X | x | x | | | | | Soft (Corn, Wheat), ParBaked |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--------------------------|----|-------------------------------------|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|---|
| Other Bakery Products | 24 | Dry Mixes | Shelf Stable | | | | | | X | x | | | | | | Pancake Batter Mixes, Flour Mixes, Cookie Mixes, Cake Mixes, Brownie Mixes, Bread Crumbs, Cornmeal, Biscuits, Breading Mix, Pie Crust Mix |
| Other Bakery Products | 25 | Ice Cream Cones | Shelf Stable | | | | | | x | x | | | | | | Sugar cones, regular cone |
| Other Bakery Products | 26 | Croutons/Bread Crumbs Unseasoned | Shelf Stable | | | | | | х | х | | | | | | Unseasoned |
| Other Bakery Products | 27 | Croutons/Bread Crumbs, Seasoned | Shelf Stable | | | | | | х | х | | | | | | Seasoned |

Table 1B: Information that you should consider for potential ingredient or other food-related biological hazards for Beverage Items

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------------|----|------------------|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Ready-to-Drink | 1 | Carbonated | Shelf-Stable | | | | | | | | | | | | | Cola, Root beer, Ginger ale, Fruit- Flavored Soda (Carbonated), Tonic Water, Sparkling Beverages(non- alcoholic) |
| Ready-to-Drink | 2 | Bottled Water | Shelf-Stable | | | | | | x | | | | | | | Mineral Water, Spring Water, Water with Fruit Flavors, Sparkling Water, Distilled Water, Carbonated Water |
| Ready-to-Drink | 3 | Coffee, plain | Shelf-Stable | | | | | | | | | | | | | Iced Coffee, Regular and Decaffeinated Coffees |
| Ready-to-Drink | 4a | Coffee, Flavored | Shelf-Stable | | | | | | | х | | | | | | Lattes, Mocha, Café Vanilla, Cappuccino, Hazelnut Coffee |
| Ready-to-Drink | 4b | Coffee, Flavored | Refrigerated | | | | | | | x | | | | | | Lattes, Mocha, Café Vanilla, Cappuccino, Hazelnut Coffee |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------------|----|-----------------|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Ready-to-Drink | 5a | Chocolate/Cocoa | Shelf-Stable | | | | | | | х | | | | | | Non-dairy chocolate/ cocoa flavored drinks |
| Ready-to-Drink | 5b | Chocolate/Cocoa | Refrigerated | | | | | | | x | | | | | | Non-dairy chocolate/ cocoa flavored drinks |
| Ready-to-Drink | 6a | Tea, Plain | Shelf-Stable | | | | | | | | | | | | | Sweet Tea, Iced Tea, Regular and Decaffeinated Teas, Low Calorie Tea |
| Ready-to-Drink | 6b | Tea, Plain | Refrigerated | | | | | | | | | | | | | Sweet Tea, Iced Tea, Regular and Decaffeinated Teas, Low Calorie Tea |
| Ready-to-Drink | 7a | Tea, Flavored | Shelf-Stable | | | | | | | | | | | | | Flavored Teas (Fruit, Botanicals), Tea Blends, Regular and Decaffeinated, Regular and Low Calorie |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------------|----|----------------|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Ready-to-Drink | 7b | Tea, Flavored | Refrigerated | x | x | | | | x | x | | | x | | | Flavored Teas (Fruit, Botanicals), Tea Blends, Regular and Decaffeinated, Regular and Low Calorie |
| Ready-to-Drink | 8a | Juice-Based | Shelf-Stable | | | | | | x | x | | | | | | Fruit Drinks with Some Juice Content (not 100% juice) |
| Ready-to-Drink | 8b | Juice-Based | Refrigerated | | | | | | х | х | | | | | | Fruit Drinks with Some Juice Content (not 100% juice) |
| Ready-to-Drink | 9a | Other Flavored | Shelf-Stable | | | | | | | x | | | | | | Fruit Flavored Drink, Fruit Punch, Raspberry Lemonade |
| Ready-to-Drink | 9b | Other Flavored | Refrigerated | | | | | | | X | | | | | | Fruit Flavored Drink, Fruit Punch, Raspberry Lemonade |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|-------------------------------|-----|----------------------------|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| | | | | 9 | Clost |) | | Can | Pa | Sc | L. 1 | | | 9 | Tri | |
| Ready-to-Drink | 10a | Drinks with Supplements | Shelf-Stable | | | | | | | x | | | | | | Caffeinated Energy Beverages, Sports Drinks, Vitamin Waters, Drinks with Herbal Infusions |
| Ready-to-Drink | 10b | Drinks with Supplements | Refrigerated | | | | | | | x | | | | | | Caffeinated Energy Beverages, Sports Drinks, Vitamin Waters, Drinks with Herbal Infusions |
| Ready-to-Drink | 11 | Milk Substitute | Refrigerated | x | | | | | x | x | | | | | | Rice milk, Soy milk, Almond Milk, Non- Dairy Liquid Creamer |
| Coffee Beans/Tea Leaves | 12 | Coffee, Plain | Shelf-Stable | | | | | | | | | | | | | Whole Roasted Coffee Beans, Ground Coffee, Single Serve Coffee Containers |
| Coffee Beans/Tea Leaves | 13 | Coffee, Flavored | Shelf-Stable | | | | | | | X | | | | | | Hazelnut Coffee, Vanilla Coffee, Single Serve Coffee Containers |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|-------------------------------|----|---|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Coffee Beans/Tea Leaves | 14 | Tea, Loose Leaf and Bagged, Tea Substitutes | Shelf-Stable | x | | x | | | x | х | | | х | | | Black Tea, Green Tea, Oolong Tea, Chai Tea, Tea With Blends of Fruits, Botanicals, Grains, etc., Tea Substitute (Chamomile, Rose Hip, Mint, Sassafras, and Barley), Single Serve Tea Containers |
| Powdered Beverages | 15 | Instant Coffee | Shelf-Stable | | | | | | | | | | | | | Instant Coffee, Coffee Substitute (Chicory Root Powder, Roast Cereal) |
| Powdered Beverages | 16 | Cocoa/Chocolate | Shelf-Stable | | | | | | | x | | | | | | Breakfast Cocoa, Chocolate Dairy Mix, Cocoa Dairy Mix, Cappuccino Mix |
| Powdered Beverages | 17 | Powdered drink and flavoring mixes | Shelf-Stable | | | | | | | х | | | | | | Flavoring powder, Grape, Orange, Lemon-Lime |

| | | | 2.0,0. | | | | | | | | | | | | | |
|--------------------------|----|--|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
| Powdered Beverages | 18 | Instant Tea | Shelf-Stable | | | | | | | х | | | | | | Lemon-flavored powdered tea |
| Powdered Beverages | 19 | Coffee Creamer - Non-Dairy | Shelf-Stable | | | | | | | х | | | | | | Non Dairy Coffee Creamer |
| Liquid Beverage Mixes | 20 | Base mix, Concentrated | Shelf-Stable | | | | | | | | | | | | | Cola Base, Root beer Base, Flavored Drink Syrups, Tea Concentrates, Coffee Concentrates |
| Liquid Beverage Mixes | 21 | Dairy-based mixes | Shelf-Stable | | | | | | | х | | | | | | Breakfast Cocoa, Chocolate Dairy Mix, Cocoa Dairy Mix, Cappuccino Mix |
| Liquid Beverage Mixes | 22 | Mixes intended for alcoholic beverages | Shelf-Stable | | | | | | | х | | | | | | Mohito Mix, Bloody Mary Mix, Margarita Mix, Cocktail Mix, Pina Colada Mix |

Table 1C: Information that you should consider for potential ingredient or other food-related biological hazards for Food Additives

| Category | # | Subcategory | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|-------------------------------|---|--|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Emulsifiers | 1 | Emulsifiers | | | | | | | x | | | | | | Soy Lecithin, Egg Lecithin, Mono- and Diglycerides, Polysorbates, Sorbitan Monostearate |
| Stabilizers and Thickeners | 2 | Firming Agents | | | | | | | | | | | | | Calcium Chloride, Calcium Lactate |
| Stabilizers and Thickeners | 3 | Humectants | | | | | | | | | | | | | Glycerin, Sorbitol |
| Stabilizers and Thickeners | 4 | Leavening Agents | | | | | | | | | | | | | Baking Soda, Monocalcium Phosphate, Calcium Carbonate |
| Stabilizers and Thickeners | 5 | Stabilizers, Thickeners, Binders, Texturizers | | | | | | | х | | | | | | Gelatin, Pectin, Carrageenan, Modified Starches, Acacia Gum, Guar Gum, Xanthan Gum, Whey Protein, Soy Protein, High Activity Dried Yeast |
| Stabilizers and Thickeners | 6 | Dough Strengtheners and Conditioner | | | | | | | | | | | | | Ammonium sulfate, Azodicarbonamide, and L-cysteine |
| Stabilizers and Thickeners | 7 | Anti-caking Agents | | | | | | | | | | | | | Calcium Silicate, Iron Ammonium Citrate, Silicon Dioxide |
| Enzymes | 8 | Enzymes | | | | | | | Χ | | | | | | Lactase, Papain, Chymosin |

| | 1 | | 1 | | , . | | | reme | | | | | | | |
|----------|--------|---------------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Category | # | Subcategory | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
| Enzymes | 9 | Starch/Sugar Liquefaction | | | | | | | Х | | | | | | Amylases |
| Enzymes | 1 0 | Bakery | | | | | | | х | | | | | | Xylanase, Lipases, Amylases, Proteases |
| Enzymes | 1 1 | Dairy | | | | | | | Х | | | | | | Rennet |
| Colors | 1 2 | Certified Colors | | | | | | | | | | | | | FD&C Blue Nos. 1 and 2, FD&C Green No. 3, FD&C Red Nos. 3 and 40, FD&C Yellow No. 5 (tartrazine), No. 6, Orange B, Citrus Red No. 2 |
| Colors | 1 3 | Natural Colors | | | | | | | | | | | | | Annatto Extract, Caramel, Beta- Carotene, Grape Skin Extract, Cochineal Extract, Chlorophyllin, Betanin, Carmine, Paprika Oleoresin, Caramel color, Saffron |
| Flavors | 1 4 | Liquid: Oil-Based | | | | | | | | | | | | | Sesame oil, Fruit oils, Almond oil, Cinnamon oil, Anise oil, Spearmint oil, Peppermint oil, Ginger oil |
| Flavors | 1 5 | Liquid: Water-Based | | | | | | | | | | | | | Various |
| Flavors | 1 6 | Liquid: Alcohol-Based | | | | | | | | | | | | | Various |

| Category | # | Subcategory | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|-------------------------------|--------|--------------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Flavors | 1 7 | Liquid: Glycol-Based | | | | | | | | | | | | | Various |
| Flavors | 1 8 | Powdered: Natural Flavor | | | | | | | х | | | | | | Vanilla Powder, Butter powder, Jasmine, Cinnamon, Orange blossom, Key Lime |
| Flavors | 1 9 | Artificial: Synthetic | | | | | | | x | | | | | | Cinnamon Raisin Flavor, Marshmallow Flavor, Watermelon Flavor, Strawberry Flavor, Grape Flavor, Cherry Flavor, Imitation Almond Extract, Imitation Coconut Extract |
| Flavors | 2 0 | Other: Flavor Enhancer | | | | | | | X | | | | | | Monosodium Glutamate, Autolyzed Yeast Extract, Hydrolyzed Vegetable Proteins, Disodium Guanylate, Inosinate |
| Flavors | 2 1 | Flavor Paste | | | | | | | | X | | | | | Vanilla Bean Paste |
| Other Chemical Ingredients | 2 2 | Processing Chemicals | | | | | | | | | | | | | Potassium Hydroxide, Potassium Bicarbonate, Potassium Chloride, Hydrochloric Acid, Sodium Hydroxide, Ferrous Sulfate, Magnesium Sulfate, Mineral Oil |

| Category | # | Subcategory | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------------------------|--------|-------------------------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Other Chemical Ingredients | 2 | Organic Acids | | | | | | | | | | | | | Acetic Acid, Citric Acid, Lactic Acid, Fumaric Acid |
| Other Chemical Ingredients | 2 | Additives | | | | | | | | | | | | | Antioxidants, Vitamin Blends, Butylated Hydroxy Toluene (BHT), d- alpha-tocopherol acetate (TOCO) |
| Other Chemical Ingredients | 2 5 | Antimicrobials and Preservatives | | | | | | | | | | | | | Nisiplin, Lauric Arginate, Potassium Sorbate |
| Other Chemical Ingredients | 2 6 | Processing Aid Gases | | | | | | | | | | | | | Nitrogen, Carbon Dioxide |

Table 1D: Information that you should consider for potential ingredient or other food-related biological hazards for Chocolate and Candy

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--|---|--|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Chocolate Industrial Products | 1 | Chocolate/Cocoa Products For Baking (Including Bulk Solid and Bulk Liquid) | Shelf-Stable | | | | | | | x | | | | | | Bittersweet Chocolate, Semi-sweet Chocolate, Unsweetened Chocolate, Milk Chocolate, Chocolate Chips, Chocolate Morsels, Cocoa Powder, White Chocolate |
| Chocolate Industrial Products | 2 | Other Products for Baking (Including Bulk Solid and Bulk Liquid) | Shelf-Stable | | | | | | | х | | | | | | Butterscotch Morsels, Peanut Butter Morsels |
| Chocolate Industrial Products | 3 | Chocolate Coating for Enrobing (Including Bulk Solid and Bulk Liquid) | Shelf-Stable | | | | | | | x | | | | | | Compound Coatings, White Chocolate |
| Chocolate and Confectionery Products | 4 | Chocolate Confections | Shelf-Stable | | | | | | | x | | | x | | | Milk Chocolate Bar, Dark/white Chocolate Bar, Fudge, bonbons |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--|---|---|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|--|
| Chocolate and Confectionery Products | 5 | Chocolate Confections - With Inclusions | Shelf-Stable | | | | | | | x | | | x | | | Chocolate Covered Nuts (e.g., Almonds, Pecans, Macadamia Nuts), Chocolate Candy Bar with Nuts, Chocolate Covered Raisins, Chocolate Covered Cherry, Chocolate with coconut, Chocolate with crisped rice, Fruit and Nut Chocolate Bar, Fudge with nuts, Chocolate Covered Biscuit, Chocolate Covered Caramel, Chocolate Covered Mints, Chocolate Covered Nougat or English Toffee |

| | | | | | | | Ciricii | | | | | | | | | |
|--|---|---|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
| Chocolate and Confectionery Products | 6 | Sugar Confections | Shelf-Stable | | | | | | | x | | | x | | | Mint, Rock Candy, Lollipop, Lemon Drops, Caramel Candy Bar, Gummy gel Candies, Fruit Chews, Soft Toffee, Licorice Candy, Marshmallow, Soft jellied Candy, Soft Caramel Squares, Gel Cups Candy, Creams, Pastes, Pastilles |
| Chocolate and Confectionery Products | 7 | Sugar Confections with inclusions | Shelf-Stable | | | | | | | x | | | х | | | Nut brittles (Peanut Brittle, Almond Brittle), Nut Clusters, Candy with fruit pieces |
| Chocolate and Confectionery Products | 8 | Sugar Confections Specialties (w/o Chocolate) | Shelf-Stable | | | | | | | x | x | | x | | | Caramel/Candied Apple, Candy Coated Popcorn, Cereal Confection, Marzipan, Coconut Roll, Cake Decoration, Peanut butter fudge, Cotton Candy |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|-------------------|---|---------------------------------------|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Toppings/Frosting | 9 | Toppings and Frosting (Non Fruit/Nut) | Shelf-Stable | | | | | | | x | | | X | | | Butterscotch Topping, Caramel Topping, Vanilla Frosting, Sour Cream Frosting, Chocolate Flavored Syrup (Hot Fudge) |

Table 1E: Information that you should consider for potential ingredient or other food-related biological hazards for Dairy

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--|---|---|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Dairy - Dry Powders | 1 | Dry milk products | Shelf-Stable | x | | | | | x | x | x | | x | | | Dried Milk, Whey Powder, Instant Nonfat Dry Milk, Whey Protein Powder |
| Dairy - Milk and Butter | 2 | Butter products | Refrigerated | x | | | | | х | X | X | | x | | | Butter, Butter Spreads, Unsalted Butter Blends |
| Dairy - Milk and Butter | 3 | Pasteurized Milk and cream products | Refrigerated | x | | | | x | x | x | x | | X | | | Fluid White Milk, Flavored Milks, Buttermilk, Creams (Heavy, Light, Whipping), Goat Milk, Sheep Milk |
| Dairy - Milk and Butter | 4 | Cultured milk products | Refrigerated | | | | | | | х | | | | | | Sour cream, Plain/Flavored Yogurt |
| Dairy, Milk and Milk Products Shelf-Stable | 5 | Ultra-High Temperature Dairy Products | Shelf-Stable | х | | | | х | х | x | х | | х | | | Dairy Creamer, UHT Milk |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--|---|--|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Dairy, Milk and Milk Products Shelf-Stable | 6 | Stabilized Liquid Milk Products | Shelf-Stable | X | | | | x | x | x | x | | x | | | Evaporated Milk, Sweetened Condensed Milk |
| Dairy - Milk, Frozen | 7 | Ice cream, regular and low fat (no inclusions) | Frozen | | | | | | x | х | X | | | | | Vanilla, Chocolate, Strawberry, Coconut |
| Dairy - Milk, Frozen | 8 | Ice cream, regular and low fat with inclusions | Frozen | | | | | | X | X | x | | | | | Butter Pecan, Mint Chocolate Chip, Fudge Ripple, Rocky Road, Cherry Vanilla, Black Raspberry, Peppermint Cookie |
| Dairy - Milk, Frozen | 9 | Sherbets | Frozen | | | | | | Х | х | х | | | | | All Flavors |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | <i>Brucella</i> spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|---|-----|----------------------|--------------------|-----------------|-----------------------|----------------|----------------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|---|
| Dairy - Milk, Frozen | 10 | Frozen Novelty Items | Frozen | | | | | | x | x | x | | | | | Milk Shakes, Ice Cream Cakes, Ice Cream Sandwiches, Chocolate Covered Ice Cream Bar, Chocolate/Nut Topped Ice Cream Desserts, Frozen Yogurt |
| Dairy - Cheese and Cheese Products - Whole | 11a | Cheese (not soft) | Shelf-Stable | | | | | | х | х | х | | х | | | Hard Cheese, Cheddar Cheese, Parmesan Cheese, Asiago Cheese |
| Dairy - Cheese and Cheese Products - Whole | 11b | Cheese (not soft) | Refrigerated | | | | | | Х | x | Х | | Х | | | Hard Cheese, Cheddar Cheese, Parmesan Cheese, Asiago Cheese |

| | | | Brajt No | ., | | | | | | | | | | | | |
|---|-------------|---|--------------------|-----------------|-----------------------|----------------|----------------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | <i>Brucella</i> spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
| Dairy - Cheese and Cheese Products - Whole | 12 | Semi-soft cheese | Refrigerated | | | | | | x | x | X | | X | | | Blue, Monterey, Muenster, Provolone, Oaxaca, Stilton, Colby, Monterey Jack, Mozzarella, Edam, Gouda |
| Dairy - Cheese and Cheese Products - Whole | 13 | Soft, ripened cheese | Refrigerated | | x | | | | X | X | X | X | x | | | Brie, Camembert, Grayson, Cheese Curd |
| Dairy - Cheese and Cheese Products - Whole | 14 | Soft, unripened cheese/ fresh cheese | Refrigerated | | x | | | | x | x | x | | x | | | Cottage Cheese, Cream Cheese, Ricotta, Queso Fresco, Cheese Curd, Goat Cheese |
| Dairy - Cheese and Cheese Products - Sliced, Shredded, or Grated | 1 5a | Cheese (not soft) | Shelf-Stable | | | | | | x | x | x | | x | | | Hard Cheese, Cheddar Cheese, Parmesan Cheese, Asiago Cheese |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|---|-----|-------------------|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|---|
| Dairy - Cheese and Cheese Products - Sliced, Shredded, or Grated | 15b | Cheese (not soft) | Refrigerated | | | | | | x | x | x | | x | | | Hard Cheese, Cheddar Cheese, Parmesan Cheese, Asiago Cheese |
| Dairy - Cheese and Cheese Products - Sliced, Shredded, or Grated | 16 | Semi-soft cheese | Refrigerated | | | | | | x | x | x | | x | | | Monterey, Muenster, Provolone, Oaxaca, Colby, Monterey Jack, Mozzarella |

Table 1F: Information that you should consider for potential ingredient or other food-related biological hazards for Dressings, Condiments, and Dips

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|-----------------------|-----|--------------------|------------------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Condiments | 1a | Mayonnaise | Shelf-Stable | | | | | | х | х | | | X | | | Mayonnaise (Regular and Lite), Chipotle Mayonnaise, Mayonnaise, Wasabi Mayonnaise, Sweet Chili Mayonnaise |
| Condiments | 1b | Mayonnaise | Refrigerated | | | | | | x | x | X | | x | | | Mayonnaise (Regular and Lite), Chipotle Mayonnaise, Mayonnaise, Wasabi Mayonnaise, Sweet Chili Mayonnaise |
| Condiments | 2a | Mustard | Shelf-Stable | | | | | | x | х | х | | | | | Yellow, Spicy, Sriracha Mustard, Garlic and Oregano Mustard |
| Condiments | 2b | Mustard | Refrigerated | | | | | | х | х | х | | | | | Yellow, Spicy, Sriracha Mustard, Garlic and Oregano Mustard |
| Condiments Condiments | 3 4 | Ketchup Vinegar | Shelf-Stable Shelf-Stable | | | | | | Х | Х | Х | | | | | Tomato Ketchup Balsamic, Apple Cider, Wine Vinegar, Grape Vinegar |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | <i>Brucella</i> spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--------------------|----|--------------------------------|-----------------------|-----------------|-----------------------|----------------|----------------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|---|
| Condiments | 5 | Other Condiments | Shelf-Stable | | | | | | | х | | | | | | Soy Sauce, Worcestershire Sauce, Horseradish Sauce, Steak Sauce, Tabasco Sauce |
| Salad Dressings | 6a | Dressings, salad (prepared) | Shelf-Stable | | | | | | | х | X | | | | | Berries and Balsamic, Ranch, Spinach Vinaigrette, Caesar, Blue Cheese Vinaigrette, Sesame Dressing, Yogurt- based salad dressings |
| Salad Dressings | 6b | Dressings, salad (prepared) | Refrigerated | X¹ | X¹ | | | | x | х | X | | | | | Berries and Balsamic, Ranch, Spinach Vinaigrette, Caesar, Blue Cheese Vinaigrette, Sesame Dressing, Yogurt- based salad dressings |
| Salad Dressings | 7 | Dry mixes | | х | х | Х | | | X | Х | | | X | | | Dried mixes to be added to oil, water, and vinegar |
| Dips | 8a | Dips and spreads | Shelf-Stable | x | | | x | x | x | х | x | | x | | | Guacamole, Salsa, Dairy- based Dips and Spreads, Bean Dips, Vegetable Dips, Taco Dip, cheese spreads, parmesan and asiago dip, 7 layer dip |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------|----|--------------------------|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|---|
| Dips | 8b | Dips and spreads | Refrigerated | x | X ² | | x | x | x | x | x | | x | | | Guacamole, Salsa, Dairy- based Dips and Spreads, Bean Dips, Vegetable Dips, Taco Dip, cheese spreads, parmesan and asiago dip, 7 layer dip |
| Dips | 9 | Dips and spreads, dry | Shelf-Stable | x | x | x | | | x | x | | | x | | | Dry Dips, Dry Dairy-based Dips and Spreads (e.g., Vegetable Dip Seasoning, Toasted Onion Dip Mix) |

¹This hazard may be considered for cold--filled products of this type.

²Consideration should be given to an enhanced risk from C. botulinum for products that are in a reduced oxygen environment.

Table 1G: Information that you should consider for potential ingredient or other food-related biological hazards for Egg and Egg Products

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--------------------------------------|----|--|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Shell Eggs | 1 | Shell Eggs Raw | Refrigerated | | | | | | | Х | Х | | | | | Shell Eggs, Raw |
| Shell Eggs | 2 | Shell Eggs: Pasteurized in Shell | Refrigerated | | | | | | | x | X | | | | | Pasteurized in Shell Eggs |
| Further Processed Egg Products | 3 | Eggs Hard Boiled: In shell | Refrigerated | | | | | | | х | x | | | | | Hard Boiled Eggs in Shell |
| Further Processed Egg Products | 4 | Eggs Hard Boiled: Shelled | Refrigerated | | х | | | | | х | x | | x | | | Hard Boiled Eggs Shelled |
| Further Processed Egg Products | 5a | Cooked Egg Products, Ready- to-Eat (RTE) and Not Ready-to-Eat (NRTE) | Refrigerated | x | x | | | | x | x | x | | x | | | Omelets, Egg Patties, Scrambled Eggs |
| Further Processed Egg Products | 5b | Cooked Egg Products, Ready- to-Eat (RTE) and Not Ready-to-Eat (NRTE) | Frozen | x | | | | | x | х | x | | x | | | Omelets, Egg Patties, Scrambled Eggs |
| Imitation Egg Products | 6a | Imitation Egg products and Egg Substitutes | Shelf-stable | | | | | | | х | | | | | | Soy-based products; vegetable and grain- based products |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|---------------------------|----|--|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Imitation Egg Products | 6b | Imitation Egg products and Egg Substitutes | Refrigerated | x | | | | | | x | x | | | | | Southwest Flavored Imitation Egg Product (Liquid), Florentine Imitation Egg Product (Liquid), Imitation Omelets, Imitation Egg Patties, Imitation Scrambled Eggs |
| Imitation Egg Products | 6c | Imitation Egg products and Egg Substitutes | Frozen | х | | | | | | х | х | | | | | Imitation Omelets, Egg Patties, Scrambled Eggs |

Table 1H: Information that you should consider for potential ingredient or other food-related biological hazards for Fruits and Vegetables

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Cyclospora | Example Products |
|-----------|---|--|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|------------|---|
| Fresh Cut | 1 | Fresh cut vegetables | Refrigerated | | X¹ | | | | x | x | x | x | x | x | | | Leafy Greens (Single and Mixed Greens), Shredded Carrots, Avocado Chunks, Leafy green salad blends, Diced Onions, Cut Tomatoes, Sliced Mushrooms |
| Fresh Cut | 2 | Fresh cut fruits | Refrigerated | | | | | | x | x | x | x | | | | | Mixed Fruit Salad; Packaged Single Fruits, Cut Melon, Apple Slices, Cut Pineapple, Cut Mango |
| Frozen | 3 | Vegetables Ready-to-Eat (RTE) | Frozen | | | | | | x | x | х | | | | | | Broccoli, Carrots, Corn- sweet, Cauliflower, Garlic, Kale, Peas, Snow peas, Spinach |
| Frozen | 4 | Vegetables, Not Ready-to- Eat (NRTE) | Frozen | | | | | | X | X | x | | | | | | Eggplants, Okra, Potatoes, Sweet potatoes, Winter squash |
| Frozen | 5 | Fruits | Frozen | | | | | | x | X | х | | | | | X | Raspberries, Melon, Blueberries, Sliced Strawberries, Tropical Fruit Blend, Mangoes, Pineapple |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Cyclospora | Example Products |
|-----------------------|-----|---|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|------------|--|
| Refrigerated | 6 | Prepared Fruit Products Ready-to-Eat (RTE) | Refrigerated | x | | | | | x | x | x | | X | | | | Cherry Mixed Fruit in Juice, Diced Peaches, Diced Pears, Red Grapefruit |
| Dried / Dehydrated | 7 | Dried Fruits | Shelf-Stable | х | | | | | X | х | Х | | X | | | | Raisins, Cranberries, Papaya, Pineapple, Mango, Blends |
| Dried / Dehydrated | 8 | Dehydrated Vegetables | Shelf-Stable | х | | | | | x | х | х | | x | | | | Peas, Celery, Onions, Carrots, Tomatoes, Green Beans, Wasabi Peas |
| Further Processed | 9 | Acidified Vegetables | Shelf-Stable | | x | | | | | x | x | | X | | | | Pickled Cucumbers, Pickled Beets, Cocktail Onions, Pickled Turnips, Hearts of Palm, Capers, Roasted Peppers, Roasted Tomatoes, Salsas |
| Further Processed | 9a | Acidified Vegetables | Refrigerated | | x | | | | | x | x | | x | | | | Pickled Cucumbers, Pickled Beets, Cocktail Onions, Pickled Turnips, Hearts of Palm, Capers, Roasted Peppers, Roasted Tomatoes, Salsas |
| Further Processed | 11a | Fermented Vegetables | Shelf-Stable | | х | | | | Х | х | Х | | | | | | Sauerkraut, Pickles, Kimchi |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | <i>Brucella</i> spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Cyclospora | Example Products |
|----------------------|-----|---|-----------------------|-----------------|-----------------------|----------------|----------------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|------------|---|
| Further Processed | 11b | Fermented Vegetables | Refrigerated | | Х | | | | X | X | X | | | | | | Sauerkraut, Pickles, Kimchi |
| Further Processed | 12a | Infused Oils | Shelf-Stable | | X¹ | | | | | | | | | | | | Garlic in Oil, Chili Pepper Oil, Lemon Oil, Sun Dried Tomatoes in Oil |
| Further Processed | 12b | Infused Oils | Refrigerated | | X¹ | | | | | | | | | | | | Garlic in Oil, Chili Pepper Oil, Lemon Oil, Sun Dried Tomatoes in Oil |
| Further Processed | 13 | Other Processed Fruits | Shelf-Stable | | х | | | | | | х | | | | | | Jams, Jellies, Chutneys |
| Further Processed | 14a | Acid Pureed Fruits and Vegetables | Shelf-Stable | | | | | | | x | x | | | | | | Applesauce, Flavored Applesauce, Tomato Paste, Tomato Puree, Apricot Puree |
| Further Processed | 14b | Acid Pureed Fruits and Vegetables | Refrigerated | | | | | | | х | x | | | | | | Applesauce, Flavored Applesauce, Tomato Paste, Tomato Puree, Apricot Puree |

¹Consideration should be given to an enhanced risk from C. botulinum for products that are in a reduced oxygen environment.

Table 1I: Information that you should consider for potential ingredient or other food-related biological hazards for Game Meat Products

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|-----------------------|----|---------------------------------|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Raw Game Meat | 1 | Not Ground Game Meat | Refrigerated & Frozen | | | | | x | x | x | | | | | x | Bison Steak, Deer Shoulder, Alligator Steak, Bear, Antelope, Caribou, Elk, Moose, Reindeer, Wild Boar, Snake, Rabbit, Squirrel, Beaver, and Birds (Pheasant, Grouse, Quail, Wild Turkey, Wild geese) |
| Raw Game Meat | 2 | Ground Game Meat | Refrigerated & Frozen | | | | | х | х | х | | | | | х | Ground Venison, Ground Rabbit, Ground Alligator |
| Game Meat Products | 3a | Processed Game Meat Products | Shelf-Stable | | | X | | х | X | х | | | х | | х | Buffalo Jerky, Alligator Jerky, Venison Salami, Ostrich Stick |

| | | | | Ĺ | l je: . | | | | | | | | | | | |
|-----------------------|----|---------------------------------|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|--|
| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
| Game Meat Products | 3b | Processed Game Meat Products | Refrigerated | | | x | | x | x | x | x | | X | | X | Bison Sausages, Venison Patties, Wild Boar Meatballs, Bison Meatloaf, Buffalo Jerky, Kangaroo Jerky, Bison Frankfurters, Venison Salami, Ostrich Stick |
| Game Meat Products | 3c | Processed Game Meat Products | Frozen | | | x | | x | x | x | x | | x | | x | Bison Sausages, Venison Patties, Wild Boar Meatballs, Bison Meatloaf, Buffalo Jerky, Kangaroo Jerky, Bison Frankfurters, Venison Salami, Ostrich Stick |

Tables 1J: Information that you should consider for potential ingredient or other food-related biological hazards for Grains, Beans and Grain Products

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------|---|---------------------|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Grains | 1 | Raw grains | Shelf-Stable | x | | | | | x | | | | | | | Wheat, Rye, Sorghum, Oats, Barley, Triticale, Buckwheat, Corn, Soy, Rice, Teff, Amaranth, Millet, Quinoa |
| Grains | 2 | Heat-treated grains | Shelf-Stable | | | | | | | Х | | | | | | Toasted oats, Puffed rice |

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|----------|---|----------------------------------|-----------------------|-----------------|---------------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
| Beans | 3 | Single component whole, dried | Shelf-Stable | x | x | x | | | x | x | | | | | | Soybean, Kidney, Haricot, Lima, Pinto, Navy, Azuki, Mung, Black Gram, Scarlet Runner, Ricebean, Moth, Tepary; Horse, Broad, Field; Garden Pea; Chickpea; Cowpea/Black- eyed Pea; Pigeon Pea; Lentil; Bambara Groundnut; Vetch; Lupins; Lablab/hyacinth, Jack, Sword, Winged Bean, Velvet Bean, Yam Bean |

| | | | Draje Noc. | , - | P 1 C 1 1 1 | | | | | | | | | | | |
|----------|----|--|-----------------------|-----------------|---------------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
| Beans | 4 | Single component bean/pea/corn: paste | Shelf-Stable | х | х | х | | | х | х | х | | | | | Bean paste, Tahini, Hummus |
| Beans | 5a | Single Component Cooked Beans - no sauce | Refrigerated | x | x | x | | | | х | x | | | | | Lima beans, Black-eyed peas, Lentils, Chickpeas, Kidney Beans, Peas, Edamame |
| Beans | 5b | Single Component Cooked Beans - no sauce | Frozen NRTE | x | | x | | | | x | x | | | | | Lima beans, Black-eyed peas, Lentils, Chickpeas, Kidney Beans, Peas, Edamame |
| Beans | 5c | Single Component Cooked Beans - no sauce | Frozen RTE | x | | x | | | | x | x | | | | | Lima beans, Black-eyed peas, Lentils, Chickpeas, Kidney Beans, Peas, Edamame |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--------------------------|----|------------------------|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Milled Grain Products | 6 | Flour | Shelf-Stable | x | | | | | x | x | x | | | | | Wheat, Oats, Barley, Rye, Buckwheat, Millet, Amaranth, Quinoa, Soy |
| Milled Grain Products | 7 | Rice and rice products | Shelf-Stable | X | | | | | | x | | | | | | White or Brown Rice, Sticky/sweet Rice, Basmati Rice, Jasmine Rice, Arborio rice, Rice-based noodles |
| Milled Grain Products | 8 | Seed or bean: Pulse | Shelf-Stable | x | | | | | | | | | | | | Garbanzo (Gram), Soy, Lentil, Sesame |
| Milled Grain Products | 9 | Malt | Shelf-Stable | | | | | | | Х | | | | | | Malted Barley |
| Milled Grain Products | 10 | Corn | Shelf-Stable | | | | | | | х | | | | | | Cornmeal, Corn Flour |
| Other Milled Products | 11 | Root flours | Shelf-Stable | х | | | | | | х | | | | | | Potato, Cassava |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--------------------------------|-----|--|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Other Milled Products | 12 | Starch products | Shelf-Stable | x | | | | | | X | | | | | | Cornstarch, Potato Starch, Wheat Starch |
| Grain-based Cereal Products | 13a | Cereal Products without Inclusions: Ready-to-Eat | Shelf-Stable | х | | | | | | x | | | X | | | Dry Cereals |
| Grain-based Cereal Products | 13b | Cereal Products with Inclusions: Ready-to- Eat | Shelf-Stable | x | | | | | | X | | | X | | | Granola with Raisins and Nuts, Cereals with Marshmallows, Nuts, Chocolate, Confectionary Bits |
| Grain-based Cereal Products | 14 | Breakfast food: Not Ready-to-Eat | Shelf-Stable | х | | | | | | х | | | х | | | Oatmeal, Farina, Oat Bran, Cream of Wheat, Grits |
| Grain-based Cereal Products | 15 | Cereal products, N.E. | Shelf-Stable | х | | | | | | х | | | х | | | Cereal Bars and Other Nutrition Bars (Baked) |
| Pasta Products | 16a | Unfilled Pasta (not ready to eat) | Refrigerated | х | х | | | | | х | х | | х | | | Spaghetti, Linguini, Rotini |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------------|-----|---|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Pasta Products | 16b | Unfilled Pasta (not ready to eat) | Frozen | х | х | | | | | X | X | | X | | | Spaghetti, Linguini, Rotini |
| Pasta Products | 17a | Filled Par-Boiled Pasta (not ready to eat) | Refrigerated | х | х | | | | х | x | х | | x | | | Mushroom Ravioli, Cheese Tortellini |
| Pasta Products | 17b | Filled Par-Boiled Pasta (not ready to eat) | Frozen | х | х | | | | х | х | х | | х | | | Mushroom Ravioli, Cheese Tortellini |
| Pasta Products | 18 | Dried pasta (not ready-to-eat) | Shelf-Stable | х | | | | | | X | | | X | | | Spaghetti, Egg Noodles |

Table 1K: Information that you should consider for potential ingredient or other food-related biological hazards for Multi-Component Foods

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------|------------|-------------|------------------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| | 1 a | Entrees | Refrigerated | x | X¹ | | | | x | x | x | | x | | | Vegetarian Lasagna, Pizza, Cheese Enchiladas, Bean Burritos; Tandoori Vegetables, Vegetable Stew, Baked Ziti, Teriyaki Bowl, Vegetable Pot Pie, Meat Analogue Chili |
| | 1b | Entrees | Frozen Ready-to-Eat (RTE) | х | | | | | x | x | x | | х | | | Vegetarian Lasagna, Pizza, Cheese Enchiladas, Bean Burritos; Tandoori Vegetables, Vegetable Stew, Baked Ziti, Teriyaki Bowl, Vegetable Pot Pie, Meat Analogue Chili |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | <i>Brucella</i> spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------|----|-------------|------------------------------------|-----------------|-----------------------|----------------|----------------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|---|
| | 1c | Entrees | Frozen NOT Ready-to- Eat (NRTE) | x | | | | | х | x | x | | x | | | Vegetarian Lasagna, Pizza, Cheese Enchiladas, Bean Burritos; Tandoori Vegetables, Vegetable Stew, Baked Ziti, Teriyaki Bowl, Vegetable Pot Pie, Meat Analogue Chili |

| | | | | , | | | | | | | | | | | | |
|----------|------------|-------------|--------------------|-----------------|-----------------------|----------------|----------------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | <i>Brucella</i> spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
| | 2 a | Side Dishes | Refrigerated | x | X ¹ | | | | x | x | x | | x | | | Macaroni and Cheese, Cheese and Broccoli Stuffed Baked Potatoes, Creamed Spinach, Broccoli and Rice Casserole, Potatoes Au Gratin, Green Bean Casserole, Corn with Butter Sauce, Mixed Vegetables with Teriyaki Sauce, French Fries, Hash Browned Potatoes, Potato Pancakes, Garlic Mashed Potatoes, Mashed Cinnamon Sweet Potatoes |

| | | | | ĺ | Ĺ | | | | | | | | | | | |
|----------|----|-------------|------------------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
| | 2b | Side Dishes | Frozen Ready-to-Eat (RTE) | x | | | | | x | x | x | | x | | | Macaroni and Cheese, Cheese and Broccoli Stuffed Baked Potatoes, Creamed Spinach, Broccoli and Rice Casserole, Potatoes Au Gratin, Green Bean Casserole, Corn with Butter Sauce, Mixed Vegetables with Teriyaki Sauce, French Fries, Hash Browned Potatoes, Potato Pancakes, Garlic Mashed Potatoes, Mashed Cinnamon Sweet Potatoes |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------|------------|-------------|------------------------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| | 2 c | Side Dishes | Frozen NOT Ready-to- Eat (NRTE) | x | | | | | x | x | x | | x | | | Macaroni and Cheese, Cheese and Broccoli Stuffed Baked Potatoes, Creamed Spinach, Broccoli and Rice Casserole, Potatoes Au Gratin, Green Bean Casserole, Corn with Butter Sauce, Mixed Vegetables with Teriyaki Sauce, French Fries, Hash Browned Potatoes, Potato Pancakes, Garlic Mashed Potatoes, Mashed Cinnamon Sweet Potatoes |
| | 3 | Deli Salads | Refrigerated | х | X ¹ | | | | х | х | X | | х | | | Three Bean Salad, Redskin Potato Salad, Egg Salad, Pasta Salad, Crunchy Broccoli Salad, Cole Slaw |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------|----|--------------|------------------------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| | 4a | Lunch Dishes | Refrigerated | x | X¹ | | | | х | x | x | | x | | | Peanut Butter and Jam Sandwich, Black Bean Burger, Croissant Sandwiches, Spinach Feta Sandwiches, Soy Meat Alternative Sandwiches |
| | 4b | Lunch Dishes | Frozen Ready-to-Eat (RTE) | x | | | | | x | x | x | | x | | | Peanut Butter and Jam Sandwich, Black Bean Burger, Croissant Sandwiches, Spinach Feta Sandwiches, Soy Meat Alternative Sandwiches |
| | 4c | Lunch Dishes | Frozen NOT Ready-to- Eat (NRTE) | x | | | | | x | x | x | | x | | | Peanut Butter and Jam Sandwich, Black Bean Burger, Croissant Sandwiches, Spinach Feta Sandwiches, Soy Meat Alternative Sandwiches |

| | | | | | | inpici. | | | | | | | | | | |
|----------|----|-----------------------------------|------------------------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
| | 5a | Appetizers and Hors d 'Oeuvres | Refrigerated | x | X¹ | | | | x | x | x | | X | | | Mozzarella Sticks, Cheese Stuffed Jalapenos, Toasted Ravioli, Vegetable Egg Rolls, Cream Cheese Wontons, Stuffed Potato Skins |
| | 5b | Appetizers and Hors d 'Oeuvres | Frozen Ready-to-Eat (RTE) | x | | | | | x | x | x | | X | | | Mozzarella Sticks, Cheese Stuffed Jalapenos, Toasted Ravioli, Vegetable Egg Rolls, Cream Cheese Wontons, Stuffed Potato Skins |
| | 5c | Appetizers and Hors d 'Oeuvres | Frozen NOT Ready-to- Eat (NRTE) | x | | | | | x | x | x | | X | | | Mozzarella Sticks, Cheese Stuffed Jalapenos, Toasted Ravioli, Vegetable Egg Rolls, Cream Cheese Wontons, Stuffed Potato Skins |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------|----|---|------------------------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|---|
| | 6a | Breakfast Items | Refrigerated | x | x | | | | x | x | x | | X | | | Tofu Scramble, Egg and Cheese Breakfast Wrap, Spinach Feta Quiche, Egg, Sausage and Cheese Biscuits |
| | 6b | Breakfast Items | Frozen Ready-to-Eat (RTE) | x | | | | | x | x | x | | X | | | Tofu Scramble, Egg and Cheese Breakfast Wrap, Spinach Feta Quiche, Egg, Sausage and Cheese Biscuits |
| | 6c | Breakfast Items | Frozen NOT Ready-to- Eat (NRTE) | x | | | | | x | х | x | | X | | | Tofu Scramble, Egg and Cheese Breakfast Wrap, Spinach Feta Quiche, Egg, Sausage and Cheese Biscuits |
| | 7 | Meals (Entrees, Breakfast Items) Dehydrated | Shelf-Stable | x | x | x | | | х | х | x | | x | | | Lentil Stew, Vegetarian Chili, Pasta Alfredo, Pasta Primavera, Tortilla Soup, Southwestern Scrambled Eggs, Biscuits and Gravy, Breakfast Skillet, |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------|---|-------------|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|--|
| | 8 | Side Dishes | Shelf-Stable | x | x | x | | | x | x | x | | x | | | Macaroni and Cheese, Potatoes Au Gratin, Seasoned Stuffing Mix, Seasoned Grain Blends, Flavored Rice |

¹Consideration should be given to an enhanced risk from C. botulinum for products that are in a reduced oxygen environment.

Table 1L: Information that you should consider for potential ingredient or other food-related biological hazards for Nuts and Seeds

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------|---|--|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Nuts | 1 | Groundnuts, Raw: Inshell | Shelf-Stable | | | | | | | х | | | | | | Peanuts |
| Nuts | 2 | Groundnuts, Raw: Shelled | Shelf-Stable | | | | | | | Х | | | | | | Peanuts |
| Nuts | 3 | Groundnuts, Roasted: In-shell, Unseasoned | Shelf-Stable | | | | | | | х | | | | | | Dry Roasted Peanuts (unsalted) |
| Nuts | 4 | Groundnuts, Roasted: Shelled, Unseasoned | Shelf-Stable | | | | | | | х | | | | | | Roasted Peanuts (unsalted) |
| Nuts | 5 | Groundnuts, Roasted: In-shell, Seasoned | Shelf-Stable | | | | | | | x | | | | | | Salted Peanuts, Barbecue Peanuts, Hickory Smoke Peanuts |
| Nuts | 6 | Groundnuts, roasted: Shelled, Seasoned | Shelf-Stable | | | | | | | x | | | | | | Honey Mustard Peanuts, Sweet Maui Onion Peanuts, Cocoa Peanuts |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------|---|--------------------------|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Nuts | 7 | Tree Nuts, Raw: In-Shell | Shelf-Stable | | | | | | х | x | | | | | | Almonds, Brazil Nuts, Cashews, Chestnuts, Filbert/Hazelnuts, Macadamias, Pecans, Pine Nuts, Pistachios, Walnuts, Betel Nut, Gingko, Lotus Nuts, Coconuts |
| Nuts | 8 | Tree Nuts, Raw: Shelled | Shelf-Stable | | | | | | x | x | | | | | | Almonds, Brazil Nuts, Cashews, Chestnuts, Filbert/Hazelnuts, Macadamias, Pecans, Pine Nuts, Pistachios, Walnuts, Betel Nut, Gingko, Lotus Nuts |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------|----|--|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Nuts | 9 | Tree nuts, roasted: Inshell unseasoned | Shelf-Stable | | | | | | x | x | | | | | | Almonds, Brazil Nuts, Cashews, Chestnuts, Filbert/Hazelnuts, Macadamias, Pecans, Pine Nuts, Pistachios, Walnuts, Betel Nut, Gingko, Lotus Nuts |
| Nuts | 10 | Tree nuts, roasted: Shelled, unseasoned | Shelf-Stable | | | | | | x | х | | | | | | Almonds, Brazil Nuts, Cashews, Chestnuts, Filbert/Hazelnuts, Macadamias, Pecans, Pine Nuts, Pistachios, Walnuts, Betel Nut, Gingko, Lotus Nuts |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--------------|----|---|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Nuts | 11 | Tree nuts, roasted: In- shell Seasoned | Shelf-Stable | | | | | | x | x | | | | | | Salted Macadamia Nuts, Spicy Jalapeno Pistachios, Lemon and Lime Pistachios, |
| Nuts | 12 | Tree nuts, roasted: Shelled, Seasoned | Shelf-Stable | | | | | | х | х | | | | | | Spicy Almonds, Hickory Smoked Almonds, Hot Chili Pepper Roasted Pistachios, Cinnamon and Sugar Walnuts, Cocoa Coated Almonds |
| Edible Seeds | 13 | In-Shell, Raw | Shelf-Stable | | | | | | | Х | | | | | | Pumpkin, Sunflower, Melon |
| Edible Seeds | 14 | Shelled, Raw | Shelf-Stable | | | | | | | х | | | | | | Pumpkin, Sunflower, Melon |
| Edible Seeds | 15 | In-Shell, Roasted, Unseasoned | Shelf-Stable | | | | | | | х | | | | | | Pumpkin, Sunflower, Melon |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|-------------------------|-----|---|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Edible Seeds | 16 | Shelled/No Shell , Roasted, Unseasoned | Shelf-Stable | | | | | | | x | | | | | | Pumpkin, Sunflower, Melon, Hemp, Sesame, Flaxseed/Linseed |
| Edible Seeds | 17 | In-Shell, Roasted, Seasoned | Shelf-Stable | | | | | | | x | | | | | | Cajun Spiced Pumpkin Seeds, Salted Pumpkin Seeds, Barbecue Sunflower Seeds, Dill Sunflowers Seeds, Ranch Sunflower Seeds |
| Edible Seeds | 18 | Shelled/No Shell , Roasted, Seasoned | Shelf-Stable | | | | | | | х | | | | | | Cinnamon and Sugar Pumpkin Seeds, Tomato Italiano Pumpkin Seeds, Sea Salted Pumpkin Seeds |
| Nut and Seed Butters | 19a | Butters | Shelf-Stable | | | | | | | х | | | | | | Peanut Butter, Almond Butter, Cashew Butter, Hazelnut Butter |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--------------------------------|-----|----------------------------|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Nut and Seed Butters | 19b | Butters | Refrigerated | | | | | | | x | x | | | | | Peanut Butter, Almond Butter, Cashew Butter, Hazelnut Butter |
| Other Nut and Seed Products | 20 | Single-component Pastes | Shelf-Stable | | | | | | | х | | | | | | Peanut Paste, Lotus Seed Paste, Sesame Seed Paste/Tahini, Pistachio Paste, Pumpkin Seed Paste/Pipian |
| Other Nut and Seed Products | 21 | Nut Flours | Shelf-Stable | | | | | | | х | | | | | | Coconut Flour, Almond Flour, Pistachio Flour, Pumpkin Seed Flour |
| Other Nut and Seed Products | 22 | Coconut Products | Shelf-Stable | | | | | | | x | | | | | | Shredded Coconut, Coconut Flakes, Toasted Coconut |

Table 1M: Information that you should consider for potential ingredient or other food-related biological hazards for Oils and Oils Products

| Category | # | Subcategory | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--------------|---|------------------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Oil Products | 1 | Cooking Oils | | | | | | | | | | | | | Corn, Soy Bean, Peanut, Safflower, Sesame, Cotton Seed, Canola, Olive, Sunflower, Blends |
| Oil Products | 2 | Margarines and other spreads | | | | | | х | х | х | | | | | Oleomargarine |
| Oil Products | 3 | Shortening | | | | | | X | х | х | | | | | Vegetable, Imitation/Substitute Vegetable Shortening |

Table 1N: Information that you should consider for potential ingredient or other food-related biological hazards for Snack Foods

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|----------|---|--|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Baked | 1 | Bread snacks, Unseasoned | Shelf-Stable | | | | | | x | x | | | | | | Breadsticks, Mini Toast, Poori, Crostini, Pretzels, Crackers |
| Baked | 2 | Bread snacks, Seasoned | Shelf-Stable | | | | | | x | x | | | | | | Honey Mustard Pretzels, Garlic Bagel Chips, Cinnamon Mini Toast, Garlic and Herb Crackers |
| Baked | 3 | Bread Snacks with Filling, Unseasoned | Shelf-Stable | | | | | | х | Х | | | | | | Peanut Butter Pretzels, Cheese Pretzels |
| Baked | 4 | Bread Snacks with Filling, Seasoned | Shelf-Stable | | | | | | х | х | | | | | | Italian Cheese Pretzels, Buffalo Bleu Cheese Baked Snacks, Pepperoni Pizza Baked Snacks, Salsa Tortilla Baked Snacks |
| Baked | 5 | Grain snacks Unseasoned | Shelf-Stable | | | | | | x | x | | | | | | Puffed Rice Snacks, Wheat Crackers, Rice Crackers, Whole Grain Crackers |
| Baked | 6 | Grain Snacks Seasoned | Shelf-Stable | | | | | | х | х | | | | | | Cheddar Cheese Rice Cakes, Caramel Corn Cakes |

| | | | | .,. | | шрп | | | | | | | | | | |
|----------|----|-------------------------------------|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
| Fried | 7 | Chips, Puffs, Crisps, Unseasoned | Shelf-Stable | | | | | | | x | | | | | | Potato Chips, Corn Chips, Cheese Puffs, Lentil Chips, Sweet Potato Chips, Mixed Root Vegetable Crisps, Tortilla Chips, |
| Fried | 8 | Chips, Puffs, Crisps, Seasoned | Shelf-Stable | | | | | | | x | | | | | | Sour Cream and Onion Potato Chips, Barbecue Potato Chips, Sriracha Tortilla Chips |
| Fried | 9 | Bread snacks Unseasoned | Shelf-Stable | | | | | | | Х | | | | | | Bagel Chips, Pita Chips |
| Fried | 10 | Bread snacks Seasoned | Shelf-Stable | | | | | | | х | | | | | | Garlic Pita Crisps, Everything Bagel Chips |
| Fried | 11 | Dehydrated Fruit snacks | Shelf-Stable | | | | | | | x | | | | | | Plantain Chips, Banana Chips, Durian Chips, Jackfruit Chips, Apple Chips, Pineapple Chips |
| Fried | 12 | Grain Snacks Unseasoned | Shelf-Stable | | | | | | | x | | | | | | Barley Grain Snack, Millet Grain Snack, Rice Grain Snacks, Multigrain Chips, Popped Popcorn |
| Fried | 13 | Grain Snacks Seasoned | Shelf-Stable | | | | | | | x | | | | | | White Cheddar Popcorn, Harvest Cheddar Multigrain Chips, French Onion Multi-Grain Chips |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|-----------------|-----|------------------------------|--------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Cold Pressed | 14 | Snack Food Bars | Shelf-Stable | | | | | | x | x | | | | | | Granola Bars, Cranberry Almond Bars, Fruit and Nut Bars, Coated Bars |
| Other | 15 | Snack Blends | Shelf-Stable | | | | | | | х | | | X | | | Trail mix; Yogurt Covered Raisins, Coated Nuts |
| Other | 16a | Pudding and gelatin products | Shelf-Stable | x | x | | | | х | х | x | | | | | Flavored Gelatin Snacks, Chocolate Pudding, Tapioca Pudding, Vanilla Pudding |
| Other | 16b | Pudding and gelatin products | Refrigerated | x | X¹ | | | | X | x | x | | | | | Flavored Gelatin Snacks, Chocolate Pudding, Tapioca Pudding, Vanilla Pudding |
| Other | 17 | Non-Dairy Frozen Desserts | Frozen | | | | | | | X | X | | | | | Ice Pops, Fruit Pops, Soy Milk Frozen Desserts, Sorbet |

Table 10: Information that you should consider for potential ingredient or other food-related biological hazards for Soups and Sauces

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|---------------------------|---|----------------------|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|---|
| Soups, Sauces, Gravies | 1 | Dry Mixes, Powder | Shelf-stable | x | x | x | | | | x | | | | | | Noodle Soup, French Onion Soup, Bouillon Cubes, Bullion Powder, Brown Soup Base, Hollandaise Sauce, Turkey Gravy, Béarnaise Sauce, Beef Gravy |
| Soups, Sauces, Gravies | 2 | Base, paste | Shelf-Stable | х | х | х | | | | х | | | | | | Chicken Base, Beef Base, Vegetable Base, Seafood Base, Turkey Base |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | <i>Brucella</i> spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|---------------------------|----|--|-----------------------|-----------------|-----------------------|----------------|----------------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Soups, Sauces, Gravies | 3a | Ready-to-Eat (RTE), Full Strength Liquid | Refrigerated | x | X ¹ | x | | | | x | x | | | | | Beef-based Soup, Stew, Chili, Chicken Soup, French Onion Soup, Mushroom Soup, Turkey Soup, Potato Soup, Chicken Broth, Consommé, Peanut Sauce, Stir-Fry Sauce, Black Bean Sauce, Chili Sauce, Tandoori Sauce, Tomato Sauce, Broccoli and Cheese Soup, Tortilla Soup, Vegetarian Vegetable Soup, Tartar Sauce, Barbecue Sauce |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | <i>Brucella</i> spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|---------------------------|----|--|-----------------------|-----------------|-----------------------|----------------|----------------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|--|
| Soups, Sauces, Gravies | 3b | Ready-to-Eat (RTE), Full Strength Liquid | Frozen | x | x | x | | | | x | x | | | | | Beef-based Soup, Stew, Chili, Chicken Soup, French Onion Soup, Mushroom Soup, Turkey Soup, Potato Soup, Chicken Broth, Consommé, Peanut Sauce, Stir-Fry Sauce, Black Bean Sauce, Chili Sauce, Tandoori Sauce, Tomato Sauce, Broccoli and Cheese Soup, Tortilla Soup, Vegetarian Vegetable Soup, Tartar Sauce, Barbecue Sauce |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|---------------------------|----|--|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|--|
| Soups, Sauces, Gravies | 4a | Condensed (Concentrated), Liquid | Refrigerated | x | X¹ | x | | | | x | x | | | | | Beef-based Soup, Stew, Chili, Chicken Soup, French Onion Soup, Mushroom Soup, Turkey Soup, Potato Soup, Chicken Broth, Consommé, Peanut Sauce, Stir-Fry Sauce, Black Bean Sauce, Chili Sauce, Tandoori Sauce, Tomato Sauce, Broccoli and Cheese Soup, Tortilla Soup, Vegetarian Vegetable Soup, Tartar Sauce, Barbecue Sauce |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|---------------------------|----|--|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|--|
| Soups, Sauces, Gravies | 4b | Condensed (Concentrated), Liquid | Frozen | X | x | x | | | | x | x | | | | | Beef-based Soup, Stew, Chili, Chicken Soup, French Onion Soup, Mushroom Soup, Turkey Soup, Potato Soup, Chicken Broth, Consommé, Peanut Sauce, Stir-Fry Sauce, Black Bean Sauce, Chili Sauce, Tandoori Sauce, Tomato Sauce, Broccoli and Cheese Soup, Tortilla Soup, Vegetarian Vegetable Soup, Tartar Sauce, Barbecue Sauce |

¹Consideration should be given to an enhanced risk from C. botulinum for products that are in a reduced oxygen environment.

Table 1P: Information that you should consider for potential ingredient or other food-related biological hazards for Spices and Herbs

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|---------------------------------------|---|--------------------------|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|--|
| Untreated, Raw Herbs and Spices | 1 | Dried, ground or cracked | Shelf-Stable | x | x | x | | | x | x | | | | | | Cinnamon, Turmeric, Paprika, Pepper (Black, White, Red), Cayenne Powder, Cumin, Coriander, Mustard, Fenugreek, Horseradish, Fennel Seeds, Caraway, All-spice, Nutmeg, Ginger, Garlic (Minced or Powder), Onion (Minced or Powder), Celery Seed |
| Untreated, Raw Herbs and Spices | 2 | Dried, whole | Shelf-Stable | x | х | х | | | x | х | | | | | | Cinnamon, Cardamom, Fenugreek, Cloves, Nutmeg, Cumin, Anise, fennel Seeds, Caraway, Chili Peppers, Saffron, Peppercorns (Black or White), Coriander, Basil, Varieties of Chili Peppers |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|---------------------------------------|----|--------------------------------|-----------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|---|
| Untreated, Raw Herbs and Spices | 3 | Dried herbs | Shelf-Stable | x | x | x | | | x | x | | | | | | Basil, Oregano, Thyme, Sage, Parsley, Bay Leaf, Dill, Rosemary, Cilantro, Mint, Kaffir Lime, Chives, Peppermint |
| Treated Herbs and Spices | 4 | Irradiated | Shelf-Stable | х | х | х | | | х | х | | | | | | Various |
| Treated Herbs and Spices | 5 | Chemically Treated (EtOH, PPO) | Shelf-Stable | х | х | х | | | х | х | | | | | | Various |
| Treated Herbs and Spices | 6 | Steam Pasteurization | Shelf-Stable | X | Х | X | | | Х | Х | | | | | | Various |
| Seasonings | 7a | Pastes | Shelf-Stable | X | Х | X | | | X | X | | | | | | Basil Paste, Garlic Paste, Jerk Seasoning Paste |
| Seasonings | 7b | Pastes | Refrigerated | X | X¹ | X | | | X | X | | | | | | Basil Paste, Garlic Paste, Jerk Seasoning Paste |
| Seasonings | 8 | Essential Oils | Shelf-Stable | | | | | | | | | | | | | Basil, Cinnamon, Clove, Ginger, Lemongrass |

| Category | # | Subcategory | Storage Conditions | Bacillus cereus | Clostridium botulinum | C. perfringens | <i>Brucella</i> spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|------------|----|---|-----------------------|-----------------|-----------------------|----------------|----------------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Seasonings | 9 | Spice and seasoning mixtures, Dry Blends | Shelf-Stable | x | x | x | | | x | x | | | | | | Taco Mix, Chili Powder, Curry Powder, Multi- Spice Mix, Adobo Seasoning, Garam Masala, Berebere, Oriental Five-Spice, Crab Snack & Dip Seasoning, Meat Coatings and Rubs, Seafood Seasonings, Scampi Seasoning, Powdered Seasonings, Popcorn Seasonings |
| Seasonings | 10 | Spice and seasoning mixtures, Liquid | Shelf-Stable | x | x | х | | | х | х | | | | | | Fajita Seasoning Sauce, Kung Pao Seasoning Sauce |

¹Consideration should be given to an enhanced risk from C. botulinum for products that are in a reduced oxygen environment.

Table 1Q: Information that you should consider for potential ingredient or other food-related biological hazards for Food Sweeteners (Nutritive and Non-Nutritive)

| Category | # | Subcategory | Bacillus cereus | Clostridium botulinum | C. perfringens | Brucella spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | Shigella spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--|---|-----------------------------------|-----------------|-----------------------|----------------|---------------|--------------------|---------------------------|-----------------|------------------|---------------|-----------|-----------------|----------------------|---|
| Food Sweeteners (Nutritive and Non- Nutritive) | 1 | Sugars (Dry) | | | | | | | | | | | | | Brown Sugar (Sucrose), Beet Sugar(Sucrose), Invert Sugar, Maple Sugar, Malt Sugar (Maltose), Grape Sugar (Fructose), Corn Syrup Solids, Corn Sugar (Dextrose), Cane Sugar (Sucrose), Milk Sugar, Date sugar, Palm Sugar |
| Food Sweeteners (Nutritive and Non- Nutritive) | 2 | Syrup/Molasses (Liquid) | | | | | | | | | | | | | Sorghum Syrup, Maple Syrup, High Fructose Corn Syrup, Molasses, Pancake and Waffle Syrup, Simple Syrup, Liquid Sucrose, Agave Syrup, Rice Syrup |
| Food Sweeteners (Nutritive and Non- Nutritive) | 3 | Honey (Liquid) | | x | | | | | | | | | | | Comb Honey, Strained Honey, Whipped Honey |
| Food Sweeteners (Nutritive and Non- Nutritive) | 4 | Imitation Syrup/Molasses (Liquid) | | х | | | | | | | | | | | Imitation Maple Syrup, Imitation Honey |

| Category | # | Subcategory | Bacillus cereus | Clostridium botulinum | C. perfringens | <i>Brucella</i> spp. | Campylobacter spp. | Pathogenic <i>E. coli</i> | Salmonella spp. | L. monocytogenes | <i>Shigella</i> spp. | S. aureus | Giardia lamblia | Trichinella spiralis | Example Products |
|--|---|----------------------------------|-----------------|-----------------------|----------------|----------------------|--------------------|---------------------------|-----------------|------------------|----------------------|-----------|-----------------|----------------------|---|
| Food Sweeteners (Nutritive and Non- Nutritive) | 5 | Food Sweeteners (Nutr) N.E.C. | | | | | | | | | | | | | Nutritive Sugar Substitutes, Sorbitol, Xylitol, Isomalt, Tagatose, Maltitol, Lactitol |
| Food Sweeteners (Nutritive and Non- Nutritive) | 6 | Food Sweeteners (Non- nutr) | | | | | | | | | | | | | Aspartame, Saccharin, Acesulfame K, Neotame, Stevia, Sucralose |

Chemical Hazards Tables

Table 2A: Information that you should consider for potential ingredient or other food-related chemical hazards for Bakery Items

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|---|----|--|--------------------|-----------------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 1a | Bread, Biscuits, Rolls, Cookie Dough, Pizza/Pie Crust | Refrigerated | | | | | x | | | | Buttermilk biscuits, Cinnamon rolls, Croissants, Pizza Crust, Chocolate Chip Cookie Dough, Puff Pastry, Phyllo |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 1b | Bread, Biscuits, Rolls, Cookie Dough, Pizza/Pie Crust | Frozen | | | | | x | | | | Buttermilk biscuits, Cinnamon rolls, Croissants, Pizza Crust, Chocolate Chip Cookie Dough, Puff Pastry, Phyllo |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 2a | Parbaked/ParBoiled Bread, Biscuits, Rolls, Pizza/Pie Crust | Refrigerated | | | | | х | | | | Artisan breads, Bagels, Biscuits, Rolls, Croissant, Pizza Crust |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 2b | Parbaked/ParBoiled Bread, Biscuits, Rolls, Pizza/Pie Crust | Frozen | | | | | х | | | | Artisan breads, Bagels, Biscuits, Rolls, Croissant, Pizza Crust |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 3 | Liquid Batter | Refrigerated | | | | | | | | | Pancake batter, Brownie batter, Waffle batter, and Doughnut batter |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--|----|-------------------------------------|--|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 4 | Fruit pies/cobblers | Frozen | | | | | х | | | | Apple/Cherry/Peach Cobbler; Apple, Cherry/ Mixed Berries/etc. Pies |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 5 | Custard pies | Frozen | | | | | X | | | | Pumpkin and Sweet Potato Pies |
| Fully-Baked Without Filling, No Topping/Frosting | 6 | Bread, Whole/Pre-sliced | Shelf-Stable, Refrigerated or Frozen | | | | | x | | | | Breads (e.g., White, Wheat, Rye, Oat Bran, Pumpernickel), Cheese Breads, Raisin Breads; Cornbread, Plain or Flavored Biscuits, Bagels, Rolls, Croissants, Pita Bread, Pumpkin Bread |
| Fully-Baked Without Filling, No Topping/Frosting | 7a | Cakes/Muffins/Brownies/ Doughnut | Shelf-Stable | | | | | x | | | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |
| Fully-Baked Without Filling, No Topping/Frosting | 7b | Cakes/Muffins/Brownies/ Doughnut | Refrigerated | | | | | x | | | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |

| | | | Braje Hoe joi III | <u> </u> | | | | | | | | |
|--|----|-------------------------------------|--------------------|----------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Fully-Baked Without Filling, No Topping/Frosting | 7c | Cakes/Muffins/Brownies/ Doughnut | Frozen | | | | | x | | | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |
| Fully-Baked Without Filling, No Topping/Frosting | 8 | Cookies | Shelf-Stable | | | | | х | | | | Chocolate Chip, Peanut Butter, Biscotti, Lemon, Butter Cookies, Brownies, Wafers, Oatmeal Cookies, Fruit, Cream or Chocolate-Filled Crisps/Bars, Wafers |
| Fully-Baked Without Filling, No Topping/Frosting | 9a | Other Pastry Products | Refrigerated | | | | | X | | | | French Toast, Blueberry Pancakes, Waffles |
| Fully-Baked Without Filling, No Topping/Frosting | 9b | Other Pastry Products | Frozen | | | | | X | | | | French Toast, Blueberry Pancakes, Waffles |

| | | I | Braje Hoe joi iii | | | | | | | | | |
|--|-----|-------------------------------------|--|----------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Fully-Baked Including Fillings, No Topping/Frosting | 10 | Bread, Whole/Pre-sliced | Shelf-Stable, Refrigerated or Frozen | | | | | x | | | | Cheese Breads, Raisin Breads; Cornbread, Flavored Biscuits, Chocolate Croissants, Pumpkin Bread, Banana Nut Bread |
| Fully-Baked Including Fillings, No Topping/Frosting | 11a | Cakes/Muffins/Brownies/ Doughnut | Shelf-Stable | | | | | х | | | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |
| Fully-Baked Including Fillings, No Topping/Frosting | 11b | Cakes/Muffins/Brownies/ Doughnut | Refrigerated | | | | | х | | | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |
| Fully-Baked Including Fillings, No Topping/Frosting | 11c | Cakes/Muffins/Brownies/ Doughnut | Frozen | | | | | х | | | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |

| | | | Brajt Not joi iii | 1 | | | | | | | | |
|---|-----|---------------------|--------------------|----------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Fully-Baked Including Fillings, No Topping/Frosting | 12a | Fruit Pies/Cobblers | Shelf-Stable | | | | | х | | | | Various Fruit Pies (Apple/Cherry/Blueberry, Rhubarb, Mixed Berry/etc.) |
| Fully-Baked Including Fillings, No Topping/Frosting | 12b | Fruit Pies/Cobblers | Refrigerated | | | | | x | | | | Various Fruit Pies (Apple/Cherry/Blueberry, Rhubarb, Mixed Berry/etc.) |
| Fully-Baked Including Fillings, No Topping/Frosting | 12c | Fruit Pies/Cobblers | Frozen | | | | | x | | | | Various Fruit Pies (Apple/Cherry/Blueberry, Rhubarb, Mixed Berry/etc.) |
| Fully-Baked Including Fillings, No Topping/Frosting | 13a | Custard/Crème Pie | Shelf-Stable | | | | | x | | | | Pumpkin/Sweet Potato, Lemon Pie, Key Lime Pie; Coconut Custard |
| Fully-Baked Including Fillings, No Topping/Frosting | 13b | Custard/Crème Pie | Refrigerated | | | | | x | | | | Pumpkin/Sweet Potato, Lemon Pie, Key Lime Pie; Coconut Custard |

| | 1 | | Draje Not joi iii | - | | | | | | | | I |
|--|-----|-----------------------|--------------------|----------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Fully-Baked Including Fillings, No Topping/Frosting | 13c | Custard/Crème Pie | Frozen | | | | | х | | | | Pumpkin/Sweet Potato, Lemon Pie, Key Lime Pie; Coconut Custard |
| Fully-Baked Including Fillings, No Topping/Frosting | 14 | Cookies | Shelf-Stable | | | | | х | | | | Chocolate Chip, Peanut Butter, Biscotti, Lemon, Butter Cookies, Brownies, Wafers, Oatmeal Cookies, Fruit, Cream or Chocolate-Filled Crisps/Bars, Wafers |
| Fully-Baked Including Fillings, No Topping/Frosting | 15a | Other Pastry Products | Refrigerated | | | | | x | | | | French Toast, Blueberry Pancakes, Waffles |
| Fully-Baked Including Fillings, No Topping/Frosting | 15b | Other Pastry Products | Frozen | | | | | x | | | | French Toast, Blueberry Pancakes, Waffles |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--|-----|-------------------------------------|--|----------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 16 | Bread, Whole/Pre-sliced | Shelf-Stable, Refrigerated or Frozen | | | | | х | | х | | Bread with Drizzles/Frosting, Seeds/Nuts on Top, |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 17a | Cakes/Muffins/Brownies/ Doughnut | Shelf-Stable | | | | | х | | х | | Cakes/Muffin/Cheesecakes with Frosting and Topping (cream, nuts, confectionery and dried fruits, etc.); Black Forest Torte |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 17b | Cakes/Muffins/Brownies/ Doughnut | Refrigerated | | | | | X | | X | | Cakes/Muffin/Cheesecakes with Frosting and Topping (cream, nuts, confectionery and dried fruits, etc.); Black Forest Torte |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 17c | Cakes/Muffins/Brownies/ Doughnut | Frozen | | | | | X | | x | | Cakes/Muffin/Cheesecakes with Frosting and Topping (cream, nuts, confectionery and dried fruits, etc.); Black Forest Torte |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|---|-----|---------------------|--------------------|----------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 18a | Fruit Pies/Cobblers | Shelf-Stable | | | | | x | | x | | Fruit Pies/Cobblers with Drizzles and Cream Topping |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 18b | Fruit Pies/Cobblers | Refrigerated | | | | | х | | х | | Fruit Pies/Cobblers with Drizzles and Cream Topping |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 18c | Fruit Pies/Cobblers | Frozen | | | | | X | | X | | Fruit Pies/Cobblers with Drizzles and Cream Topping |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 19a | Custard/Crème Pie | Shelf-Stable | | | | | x | | x | | Pumpkin and Sweet Potato Pies with Whipped Cream, Key Lime Pie, Coconut Custard Pie, Fruit Topped Cheesecake |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 19b | Custard/Crème Pie | Refrigerated | | | | | х | | х | | Pumpkin and Sweet Potato Pies with Whipped Cream, Key Lime Pie, Coconut Custard Pie, Fruit Topped Cheesecake |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--|-----|-----------------------|--------------------|----------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 19c | Custard/Crème Pie | Frozen | | | | | х | | х | | Pumpkin and Sweet Potato Pies with Whipped Cream, Key Lime Pie, Coconut Custard Pie, Fruit Topped Cheesecake |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 20 | Cookies | Shelf-Stable | | | | | X | | X | | Cream-Filled Sandwich Cookies |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 21a | Other Pastry Products | Refrigerated | | | | | x | | x | | Danishes, Éclair, Cream Puffs, Cannoli, Doughnuts, Toaster Pastries, Apple Turnovers, Baklava with Additions after Baking |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 21b | Other Pastry Products | Frozen | | | | | х | | х | | Danishes, Éclair, Cream Puffs, Cannoli, Doughnuts, Toaster Pastries, Apple Turnovers, Baklava with Additions after Baking |
| Assembled Cream Pies | 22a | Custard/Crème Pie | Refrigerated | | | | | х | | х | | French Silk, Chocolate Cream Pie, Coconut Cream Pie, Peanut Butter Pie, Meringue Pies |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--------------------------|-----|-------------------------------------|--------------------|----------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Assembled Cream Pies | 22b | Custard/Crème Pie | Frozen | | | | | х | | х | | French Silk, Chocolate Cream Pie, Coconut Cream Pie, Peanut Butter Pie, Meringue Pies |
| Other Bakery Products | 23a | Tortillas, Soft Shell/Hard Shell | Shelf Stable | | | | | X | | | | Soft (Corn, Wheat), Hard Type, Baked, Fried |
| Other Bakery Products | 23b | Tortillas, Soft Shell/Hard Shell | Refrigerated | | | | | x | | | | Soft (Corn, Wheat), ParBaked |
| Other Bakery Products | 24 | Dry Mixes | Shelf Stable | | | | | х | | х | | Pancake Batter Mixes, Flour Mixes, Cookie Mixes, Cake Mixes, Brownie Mixes, Bread Crumbs, Cornmeal, Biscuits, Breading Mix, Pie Crust Mix |
| Other Bakery Products | 25 | Ice Cream Cones | Shelf Stable | | | | | x | | | | Sugar cones, regular cone |
| Other Bakery Products | 26 | Croutons/Bread Crumbs Unseasoned | Shelf Stable | | | | | х | | | | Unseasoned |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--------------------------|----|------------------------------------|--------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|------------------|
| Other Bakery Products | 27 | Croutons/Bread Crumbs, Seasoned | Shelf Stable | | | | | X | | X | | Seasoned |

Table 2B: Information that you should consider for potential ingredient or other food-related chemical hazards for Beverage Items

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|----------------|----|------------------|--------------------|-----------------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Ready-to-Drink | 1 | Carbonated | Shelf-Stable | | | | х | | | х | | Cola, Root beer, Ginger ale, Fruit-Flavored Soda (Carbonated), Tonic Water, Sparkling Beverages(non- alcoholic) |
| Ready-to-Drink | 2 | Bottled Water | Shelf-Stable | | x | x | | | | x | | Mineral Water, Spring Water, Water with Fruit Flavors, Sparkling Water, Distilled Water, Carbonated Water |
| Ready-to-Drink | 3 | Coffee, plain | Shelf-Stable | | | | х | X | | | | Iced Coffee, Regular and Decaffeinated Coffees |
| Ready-to-Drink | 4a | Coffee, Flavored | Shelf-Stable | | | | | | | Х | | Lattes, Mocha, Café Vanilla, Cappuccino, Hazelnut Coffee |
| Ready-to-Drink | 4b | Coffee, Flavored | Refrigerated | | | | | | | Х | | Lattes, Mocha, Café Vanilla, Cappuccino, Hazelnut Coffee |
| Ready-to-Drink | 5a | Chocolate/Cocoa | Shelf-Stable | | | | | | | | | Non-dairy chocolate/ cocoa flavored drinks |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|----------------|----|-----------------|--------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Ready-to-Drink | 5b | Chocolate/Cocoa | Refrigerated | | | | | | | | | Non-dairy chocolate/ cocoa flavored drinks |
| Ready-to-Drink | 6a | Tea, Plain | Shelf-Stable | | | | | | | х | | Sweet Tea, Iced Tea, Regular and Decaffeinated Teas, Low Calorie Tea |
| Ready-to-Drink | 6b | Tea, Plain | Refrigerated | | | | | | | x | | Sweet Tea, Iced Tea, Regular and Decaffeinated Teas, Low Calorie Tea |
| Ready-to-Drink | 7a | Tea, Flavored | Shelf-Stable | | | | | | | x | | Flavored Teas (Fruit, Botanicals), Tea Blends, Regular and Decaffeinated, Regular and Low Calorie |
| Ready-to-Drink | 7b | Tea, Flavored | Refrigerated | | | | | | | x | | Flavored Teas (Fruit, Botanicals), Tea Blends, Regular and Decaffeinated, Regular and Low Calorie |
| Ready-to-Drink | 8a | Juice-Based | Shelf-Stable | | | | | | | Х | | Fruit Drinks with Some Juice Content (not 100% juice) |
| Ready-to-Drink | 8b | Juice-Based | Refrigerated | | | | | | | X | | Fruit Drinks with Some Juice Content (not 100% juice) |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|----------------------------|-----|-------------------------|--------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Ready-to-Drink | 9a | Other Flavored | Shelf-Stable | | | | | | | х | | Fruit Flavored Drink, Fruit Punch, Raspberry Lemonade |
| Ready-to-Drink | 9b | Other Flavored | Refrigerated | | | | | | | Х | | Fruit Flavored Drink, Fruit Punch, Raspberry Lemonade |
| Ready-to-Drink | 10a | Drinks with Supplements | Shelf-Stable | | | | | | | х | | Caffeinated Energy Beverages, Sports Drinks, Vitamin Waters, Drinks with Herbal Infusions |
| Ready-to-Drink | 10b | Drinks with Supplements | Refrigerated | | | | | | | х | | Caffeinated Energy Beverages, Sports Drinks, Vitamin Waters, Drinks with Herbal Infusions |
| Ready-to-Drink | 11 | Milk Substitute | Refrigerated | | | | | | | | | Rice milk, Soy milk, Almond Milk, Non-Dairy Liquid Creamer |
| Coffee Beans/Tea Leaves | 12 | Coffee, Plain | Shelf-Stable | | | | | x | | | | Whole Roasted Coffee Beans, Ground Coffee, Single Serve Coffee Containers |
| Coffee Beans/Tea Leaves | 13 | Coffee, Flavored | Shelf-Stable | | | | | х | | х | | Hazelnut Coffee, Vanilla Coffee, Single Serve Coffee Containers |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|----------------------------|----|--|--------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Coffee Beans/Tea Leaves | 14 | Tea, Loose Leaf and Bagged, Tea Substitutes | Shelf-Stable | | | | | X | | Una | | Black Tea, Green Tea, Oolong Tea, Chai Tea, Tea With Blends of Fruits, Botanicals, Grains, etc., Tea Substitute (Chamomile, Rose Hip, Mint, Sassafras, and Barley), Single |
| Powdered Beverages | 15 | Instant Coffee | Shelf-Stable | | | | | | | | | Instant Coffee, Coffee Substitute (Chicory Root Powder, Roast Cereal) |
| Powdered Beverages | 16 | Cocoa/Chocolate | Shelf-Stable | | | | | | | х | | Breakfast Cocoa, Chocolate Dairy Mix, Cocoa Dairy Mix, Cappuccino Mix |
| Powdered Beverages | 17 | Powdered drink and flavoring mixes | Shelf-Stable | | | | | | | Х | | Flavoring powder, Grape, Orange, Lemon-Lime |
| Powdered Beverages | 18 | Instant Tea | Shelf-Stable | | | | | | | Х | | Lemon-flavored powdered tea |
| Powdered Beverages | 19 | Coffee Creamer - Non- Dairy | Shelf-Stable | | | | | | | | | Non Dairy Coffee Creamer |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--------------------------|----|--|--------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Liquid Beverage Mixes | 20 | Base mix, Concentrated | Shelf-Stable | | | | | | | x | | Cola Base, Root beer Base, Flavored Drink Syrups, Tea Concentrates, Coffee Concentrates |
| Liquid Beverage Mixes | 21 | Dairy-based mixes | Shelf-Stable | | | | | | | х | | Breakfast Cocoa, Chocolate Dairy Mix, Cocoa Dairy Mix, Cappuccino Mix |
| Liquid Beverage Mixes | 22 | Mixes intended for alcoholic beverages | Shelf-Stable | | | | | | | х | | Mohito Mix, Bloody Mary Mix, Margarita Mix, Cocktail Mix, Pina Colada Mix |

Table 2C: Information that you should consider for potential ingredient or other food-related chemical hazards for Food Additives

| Category | # | Subcategory | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|-------------------------------|---|--|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Emulsifiers | 1 | Emulsifiers | | | | | | | | | Soy Lecithin, Egg Lecithin, Mono- and Diglycerides, Polysorbates, Sorbitan Monostearate |
| Stabilizers and Thickeners | 2 | Firming Agents | | | | | | | | | Calcium Chloride, Calcium Lactate |
| Stabilizers and Thickeners | 3 | Humectants | | | | | | | | | Glycerin, Sorbitol |
| Stabilizers and Thickeners | 4 | Leavening Agents | | | | | | | | | Baking Soda, Monocalcium Phosphate, Calcium Carbonate |
| Stabilizers and Thickeners | 5 | Stabilizers, Thickeners, Binders, Texturizers | | | | | | | | | Gelatin, Pectin, Carrageenan, Modified Starches, Acacia Gum, Guar Gum, Xanthan Gum, Whey Protein, Soy Protein, High Activity Dried Yeast |

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| Category | # | Subcategory | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Stabilizers and Thickeners | 6 | Dough Strengtheners and Conditioner | | | | | | | | | Ammonium sulfate, Azodicarbonamide, and L-cysteine |
| Stabilizers and Thickeners | 7 | Anti-caking Agents | | | | | | | | | Calcium Silicate, Iron Ammonium Citrate, Silicon Dioxide |
| Enzymes | 8 | Enzymes | | | | | | | | | Lactase, Papain, Chymosin |
| Enzymes | 9 | Starch/Sugar Liquefaction | | | | | | | | | Amylases |
| Enzymes | 10 | Bakery | | | | | | | | | Xylanase, Lipases, Amylases, Proteases |
| Enzymes | 11 | Dairy | | | | | | | | | Rennet |
| Colors | 12 | Certified Colors | | | | | | | | | FD&C Blue Nos. 1 and 2, FD&C Green No. 3, FD&C Red Nos. 3 and 40, FD&C Yellow No. 5 (tartrazine), No. 6, Orange B, Citrus Red No. 2 |

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| Category | # | Subcategory | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Colors | 13 | Natural Colors | | | | | | | х | | Annatto Extract, Caramel, Beta- Carotene, Grape Skin Extract, Cochineal Extract, Chlorophyllin, Betanin, Carmine, Paprika Oleoresin, Caramel color, Saffron |
| Flavors | 14 | Liquid: Oil-Based | | | | | | | | | Sesame oil, Fruit oils, Almond oil, Cinnamon oil, Anise oil, Spearmint oil, Peppermint oil, Ginger oil |
| Flavors | 15 | Liquid: Water-Based | | | | | | | | | Various |
| Flavors | 16 | Liquid: Alcohol-Based | | | | | | | | | Various |
| Flavors | 17 | Liquid: Glycol-Based | | | | | | | | | Various |
| Flavors | 18 | Powdered: Natural Flavor | | | | | | | х | | Vanilla Powder, Butter powder, Jasmine, Cinnamon, Orange blossom, Key Lime |

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| Category | # | Subcategory | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Flavors | 19 | Artificial: Synthetic | | | | | | | х | | Cinnamon Raisin Flavor, Marshmallow Flavor, Watermelon Flavor, Strawberry Flavor, Grape Flavor, Cherry Flavor, Imitation Almond Extract, Imitation Coconut Extract |
| Flavors | 20 | Other: Flavor Enhancer | | | | | | | х | | Monosodium Glutamate, Autolyzed Yeast Extract, Hydrolyzed Vegetable Proteins, Disodium Guanylate, Inosinate |
| Flavors | 21 | Flavor Paste | | | | | | | | | Vanilla Bean Paste |
| Other Chemical Ingredients | 22 | Processing Chemicals | | | | | | | | | Potassium Hydroxide, Potassium Bicarbonate, Potassium Chloride, Hydrochloric Acid, Sodium Hydroxide, Ferrous Sulfate, Magnesium Sulfate, Mineral Oil |

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| Category | # | Subcategory | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Other Chemical Ingredients | 23 | Organic Acids | | | | | | | | | Acetic Acid, Citric Acid, Lactic Acid, Fumaric Acid |
| Other Chemical Ingredients | 24 | Additives | | | | | | | | | Antioxidants, Vitamin Blends, Butylated Hydroxy Toluene (BHT), d-alpha- tocopherol acetate (TOCO) |
| Other Chemical Ingredients | 25 | Antimicrobials and Preservatives | | | | | | | | | Nisiplin, Lauric Arginate, Potassium Sorbate |
| Other Chemical Ingredients | 26 | Processing Aid Gases | | | | х | | | | | Nitrogen, Carbon Dioxide |

Table 2D: Information that you should consider for potential ingredient or other food-related chemical hazards for Chocolate and Candy

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--|---|--|--------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Chocolate Industrial Products | 1 | Chocolate/Cocoa Products For Baking (Including Bulk Solid and Bulk Liquid) | Shelf-Stable | | | x | | x | | х | | Bittersweet Chocolate, Semisweet Chocolate, Unsweetened Chocolate, Milk Chocolate, Chocolate Chips, Chocolate Morsels, Cocoa Powder, White Chocolate |
| Chocolate Industrial Products | 2 | Other Products for Baking (Including Bulk Solid and Bulk Liquid) | Shelf-Stable | | | | | X | | x | | Butterscotch Morsels, Peanut Butter Morsels |
| Chocolate Industrial Products | 3 | Chocolate Coating for Enrobing (Including Bulk Solid and Bulk Liquid) | Shelf-Stable | | | | | | | x | | Compound Coatings, White Chocolate |
| Chocolate and Confectionery Products | 4 | Chocolate Confections | Shelf-Stable | | | x | | | | x | | Milk Chocolate Bar, Dark/white Chocolate Bar, Fudge, bonbons |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--|---|--|--------------------|----------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Chocolate and Confectionery Products | 5 | Chocolate Confections - With Inclusions | Shelf-Stable | | | | | x | | x | | Chocolate Covered Nuts (e.g., Almonds, Pecans, Macadamia Nuts), Chocolate Candy Bar with Nuts, Chocolate Covered Raisins, Chocolate Covered Cherry, Chocolate with coconut, Chocolate with crisped rice, Fruit and Nut Chocolate Bar, Fudge with nuts, Chocolate Covered Biscuit, Chocolate Covered Caramel, Chocolate Covered Mints, Chocolate Covered Nougat or English Toffee |
| Chocolate and Confectionery Products | 6 | Sugar Confections | Shelf-Stable | | | х | | | | X | | Mint, Rock Candy, Lollipop, Lemon Drops, Caramel Candy Bar, Gummy gel Candies, Fruit Chews, Soft Toffee, Licorice Candy, Marshmallow, Soft jellied Candy, Soft Caramel Squares, Gel Cups Candy, Creams, Pastes, Pastilles |

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| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Chocolate and Confectionery Products | 7 | Sugar Confections with inclusions | Shelf-Stable | | | | | х | | х | | Nut brittles (Peanut Brittle, Almond Brittle), Nut Clusters, Candy with fruit pieces |
| Chocolate and Confectionery Products | 8 | Sugar Confections Specialties (w/o Chocolate) | Shelf-Stable | | | | | | | x | | Caramel/Candied Apple, Candy Coated Popcorn, Cereal Confection, Marzipan, Coconut Roll, Cake Decoration, Peanut butter fudge, Cotton Candy |
| Chocolate and Confectionery Products | | | | | | x | | | | | | Mexican style candy |
| Toppings/Frosting | 9 | Toppings and Frosting (Non Fruit/Nut) | Shelf-Stable | | | | | | | х | | Butterscotch Topping, Caramel Topping, Vanilla Frosting, Sour Cream Frosting, Chocolate Flavored Syrup (Hot Fudge) |

Table 2E: Information that you should consider for potential ingredient or other food-related chemical hazards for Dairy

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|---|---|--|--------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Dairy - Dry Powders | 1 | Dry milk products | Shelf-Stable | | | | | | | | | Dried Milk, Whey Powder, Instant Nonfat Dry Milk, Whey Protein Powder |
| Dairy - Milk and Butter | 2 | Butter products | Refrigerated | | | | | | | | | Butter, Butter Spreads, Unsalted Butter Blends |
| Dairy - Milk and Butter | 3 | Pasteurized Milk and cream products | Refrigerated | | х | x | x | | | | | Fluid White Milk, Flavored Milks, Buttermilk, Creams (Heavy, Light, Whipping), Goat Milk, Sheep Milk |
| Dairy - Milk and Butter | 4 | Cultured milk products | Refrigerated | | | | | х | | | | Sour cream, Plain/Flavored Yogurt |
| Dairy, Milk and Milk Products Shelf- Stable | 5 | Ultra-High Temperature Dairy Products | Shelf-Stable | | x | х | х | | | | | Dairy Creamer, UHT Milk |
| Dairy, Milk and Milk Products Shelf- Stable | 6 | Stabilized Liquid Milk Products | Shelf-Stable | | | | | | | х | | Evaporated Milk, Sweetened Condensed Milk |

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|--|-----|--|--------------------|-----------------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Dairy - Milk, Frozen | 7 | Ice cream, regular and low fat (no inclusions) | Frozen | | | | х | х | | х | | Vanilla, Chocolate, Strawberry, Coconut |
| Dairy - Milk, Frozen | 8 | Ice cream, regular and low fat with inclusions | Frozen | | | | x | x | | x | | Butter Pecan, Mint Chocolate Chip, Fudge Ripple, Rocky Road, Cherry Vanilla, Black Raspberry, Peppermint Cookie |
| Dairy - Milk, Frozen | 9 | Sherbets | Frozen | | | | | | | Х | | All Flavors |
| Dairy - Milk, Frozen | 10 | Frozen Novelty Items | Frozen | | | | x | х | | х | | Milk Shakes, Ice Cream Cakes, Ice Cream Sandwiches, Chocolate Covered Ice Cream Bar, Chocolate/Nut Topped Ice Cream Desserts, Frozen Yogurt |
| Dairy - Cheese and Cheese Products - Whole | 11a | Cheese (not soft) | Shelf-Stable | | | | | | | | | Hard Cheese, Cheddar Cheese, Parmesan Cheese, Asiago Cheese |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|---|-----|---|--------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Dairy - Cheese and Cheese Products - Whole | 11b | Cheese (not soft) | Refrigerated | | | | | | | ū | | Hard Cheese, Cheddar Cheese, Parmesan Cheese, Asiago Cheese |
| Dairy - Cheese and Cheese Products - Whole | 12 | Semi-soft cheese | Refrigerated | | | | | | | | | Blue, Monterey, Muenster, Provolone, Oaxaca, Stilton, Colby, Monterey Jack, Mozzarella, Edam, Gouda |
| Dairy - Cheese and Cheese Products - Whole | 13 | Soft, ripened cheese | Refrigerated | | | | | | | | | Brie, Camembert, Grayson, Cheese Curd |
| Dairy - Cheese and Cheese Products - Whole | 14 | Soft, unripened cheese/ fresh cheese | Refrigerated | | | | | | | | | Cottage Cheese, Cream Cheese, Ricotta, Queso Fresco, Cheese Curd, Goat Cheese |
| Dairy - Cheese and Cheese Products - Sliced, Shredded, or Grated | 15a | Cheese (not soft) | Shelf-Stable | | | | | | | | | Hard Cheese, Cheddar Cheese, Parmesan Cheese, Asiago Cheese |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|---|-----|-------------------|--------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Dairy - Cheese and Cheese Products - Sliced, Shredded, or Grated | 15b | Cheese (not soft) | Refrigerated | | | | | | | | | Hard Cheese, Cheddar Cheese, Parmesan Cheese, Asiago Cheese |
| Dairy - Cheese and Cheese Products - Sliced, Shredded, or Grated | 16 | Semi-soft cheese | Refrigerated | | | | | | | | | Monterey, Muenster, Provolone, Oaxaca, Colby, Monterey Jack, Mozzarella |

Table 2F: Information that you should consider for potential ingredient or other food-related chemical hazards for Dressings, Condiments, and Dips

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|------------|----|------------------|--------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Condiments | 1a | Mayonnaise | Shelf-Stable | | | | | | | | | Mayonnaise (Regular and Lite), Chipotle Mayonnaise, Mayonnaise, Wasabi Mayonnaise, Sweet Chili Mayonnaise |
| Condiments | 1b | Mayonnaise | Refrigerated | | | | | | | | | Mayonnaise (Regular and Lite), Chipotle Mayonnaise, Mayonnaise, Wasabi Mayonnaise, Sweet Chili Mayonnaise |
| Condiments | 2a | Mustard | Shelf-Stable | | | | | | | | | Yellow, Spicy, Sriracha Mustard, Garlic and Oregano Mustard |
| Condiments | 2b | Mustard | Refrigerated | | | | | | | | | Yellow, Spicy, Sriracha Mustard, Garlic and Oregano Mustard |
| Condiments | 3 | Ketchup | Shelf-Stable | | | | | | | | | Tomato Ketchup |
| Condiments | 4 | Vinegar | Shelf-Stable | | | | | | | | | Balsamic, Apple Cider, Wine Vinegar, Grape Vinegar |
| Condiments | 5 | Other Condiments | Shelf-Stable | | | | | | | X | | Soy Sauce, Worcestershire Sauce, Horseradish Sauce, Steak Sauce, Tabasco Sauce |

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|-----------------|----|--------------------------------|--------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Salad Dressings | 6a | Dressings, salad (prepared) | Shelf-Stable | | | | | | | x | | Berries and Balsamic, Ranch, Spinach Vinaigrette, Caesar, Blue Cheese Vinaigrette, Sesame Dressing, Yogurt-based salad dressings |
| Salad Dressings | 6b | Dressings, salad (prepared) | Refrigerated | | | | | | | X | | Berries and Balsamic, Ranch, Spinach Vinaigrette, Caesar, Blue Cheese Vinaigrette, Sesame Dressing, Yogurt-based salad dressings |
| Salad Dressings | 7 | Dry mixes | | | | | | | | X | | Dried mixes to be added to oil, water, and vinegar |
| Dips | 8a | Dips and spreads | Shelf-Stable | | | | | | X | x | | Guacamole, Salsa, Dairy-based Dips and Spreads, Bean Dips, Vegetable Dips, Taco Dip, cheese spreads, parmesan and asiago dip, 7 layer dip |
| Dips | 8b | Dips and spreads | Refrigerated | | | | | | X | x | | Guacamole, Salsa, Dairy-based Dips and Spreads, Bean Dips, Vegetable Dips, Taco Dip, cheese spreads, parmesan and asiago dip, 7 layer dip |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|----------|---|-----------------------|--------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Dips | 9 | Dips and spreads, dry | Shelf-Stable | | | | | | x | X | | Dry Dips, Dry Dairy-based Dips and Spreads (e.g., Vegetable Dip Seasoning, Toasted Onion Dip Mix) |

Table 2G: Information that you should consider for potential ingredient or other food-related chemical hazards for Egg and Egg Products

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Product |
|-----------------------------------|----|--|--------------------|-----------------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--------------------------------------|
| Shell Eggs | 1 | Shell Eggs Raw | Refrigerated | | | | | | | | | Shell Eggs, Raw |
| Shell Eggs | 2 | Shell Eggs: Pasteurized in Shell | Refrigerated | | | | | | | | | Pasteurized in Shell Eggs |
| Further Processed Egg Products | 3 | Eggs Hard Boiled: In shell | Refrigerated | | | | | | | | | Hard Boiled Eggs in Shell |
| Further Processed Egg Products | 4 | Eggs Hard Boiled: Shelled | Refrigerated | | | | | | | | | Hard Boiled Eggs Shelled |
| Further Processed Egg Products | 5a | Cooked Egg Products, Ready- to-Eat (RTE) and Not Ready-to-Eat (NRTE) | Refrigerated | | | | | | | х | | Omelets, Egg Patties, Scrambled Eggs |
| Further Processed Egg Products | 5b | Cooked Egg Products, Ready- to-Eat (RTE) and Not Ready-to-Eat (NRTE) | Frozen | | | | | | | х | | Omelets, Egg Patties, Scrambled Eggs |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Product |
|---------------------------|----|--|--------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Imitation Egg Products | 6a | Imitation Egg products and Egg Substitutes | Shelf-stable | | | | | | | X | | Soy-based products; vegetable and grain- based products |
| Imitation Egg Products | 6b | Imitation Egg products and Egg Substitutes | Refrigerated | | | | | | | x | | Southwest Flavored Imitation Egg Product (Liquid), Florentine Imitation Egg Product (Liquid), Imitation Omelets, Imitation Egg Patties, Imitation Scrambled Eggs |
| Imitation Egg Products | 6c | Imitation Egg products and Egg Substitutes | Frozen | | | | | | | x | | Imitation Omelets, Egg Patties, Scrambled Eggs |

Table 2H: Information that you should consider for potential ingredient or other food-related chemical hazards for Fruits and Vegetables

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|-----------|---|---|--------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Fresh Cut | 1 | Fresh cut vegetables | Refrigerated | | | | | | х | | | Leafy Greens (Single and Mixed Greens), Shredded Carrots, Avocado Chunks, Leafy green salad blends, Diced Onions, Cut Tomatoes, Sliced Mushrooms |
| Fresh Cut | 2 | Fresh cut fruits | Refrigerated | | | | | х | x | | | Mixed Fruit Salad; Packaged Single Fruits, Cut Melon, Apple Slices, Cut Pineapple, Cut Mango |
| Frozen | 3 | Vegetables Ready- to-Eat (RTE) | Frozen | | | | | | x | | | Broccoli, Carrots, Corn-sweet, Cauliflower, Garlic, Kale, Peas, Snow peas, Spinach |
| Frozen | 4 | Vegetables, Not Ready-to-Eat (NRTE) | Frozen | | | | | | х | | | Eggplants, Okra, Potatoes, Sweet potatoes, Winter squash |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--------------------|---|---|--------------------|-----------------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Frozen | 5 | Fruits | Frozen | | | | | | х | | | Raspberries, Melon, Blueberries, Sliced Strawberries, Tropical Fruit Blend, Mangoes, Pineapple |
| Refrigerated | 6 | Prepared Fruit Products Ready-to- Eat (RTE) | Refrigerated | | | | | | х | | | Cherry Mixed Fruit in Juice, Diced Peaches, Diced Pears, Red Grapefruit |
| Dried / Dehydrated | 7 | Dried Fruits | Shelf-Stable | | | | | х | х | | | Raisins, Cranberries, Papaya, Pineapple, Mango, Blends |
| Dried / Dehydrated | 8 | Dehydrated Vegetables | Shelf-Stable | | | | | | x | | | Peas, Celery, Onions, Carrots, Tomatoes, Green Beans, Wasabi Peas |
| Further Processed | 9 | Acidified Vegetables | Shelf-Stable | | | | | | | | | Pickled Cucumbers, Pickled Beets, Cocktail Onions, Pickled Turnips, Hearts of Palm, Capers, Roasted Peppers, Roasted Tomatoes, Salsas |

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| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Further Processed | 9a | Acidified Vegetables | Refrigerated | | | | | | | | | Pickled Cucumbers, Pickled Beets, Cocktail Onions, Pickled Turnips, Hearts of Palm, Capers, Roasted Peppers, Roasted Tomatoes, Salsas |
| Further Processed | 11a | Fermented Vegetables | Shelf-Stable | | | | | | | | | Sauerkraut, Pickles, Kimchi |
| Further Processed | 11b | Fermented Vegetables | Refrigerated | | | | | | | | | Sauerkraut, Pickles, Kimchi |
| Further Processed | 12a | Infused Oils | Shelf-Stable | | | | | | | | | Garlic in Oil, Chili Pepper Oil, Lemon Oil, Sun Dried Tomatoes in Oil |
| Further Processed | 12b | Infused Oils | Refrigerated | | | | | | | | | Garlic in Oil, Chili Pepper Oil, Lemon Oil, Sun Dried Tomatoes in Oil |
| Further Processed | 13 | Other Processed Fruits | Shelf-Stable | | | | | Х | | | | Jams, Jellies, Chutneys |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|-------------------|-----|-----------------------------------|--------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Further Processed | 14a | Acid Pureed Fruits and Vegetables | Shelf-Stable | | | | | | | | | Applesauce, Flavored Applesauce, Tomato Paste, Tomato Puree, Apricot Puree |
| Further Processed | 14b | Acid Pureed Fruits and Vegetables | Refrigerated | | | | | | | | | Applesauce, Flavored Applesauce, Tomato Paste, Tomato Puree, Apricot Puree |

Table 2I: Information that you should consider for potential ingredient or other food-related chemical hazards for Game Meat Products

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|-----------------------|----|---------------------------------|-----------------------|-----------------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Raw Game Meat | 1 | Not Ground Game Meat | Refrigerated & Frozen | | | x | | | | | | Bison Steak, Deer Shoulder, Alligator Steak, Bear, Antelope, Caribou, Elk, Moose, Reindeer, Wild Boar, Snake, Rabbit, Squirrel, Beaver, and Birds (Pheasant, Grouse, Quail, Wild Turkey, Wild geese) |
| Raw Game Meat | 2 | Ground Game Meat | Refrigerated & Frozen | | | х | | | | | | Ground Venison, Ground Rabbit, Ground Alligator |
| Game Meat Products | 3a | Processed Game Meat Products | Shelf-Stable | | | х | х | | | х | | Buffalo Jerky, Alligator Jerky, Venison Salami, Ostrich Stick |
| Game Meat Products | 3b | Processed Game Meat Products | Refrigerated | | | X | x | | | X | | Bison Sausages, Venison Patties, Wild Boar Meatballs, Bison Meatloaf, Buffalo Jerky, Kangaroo Jerky, Bison Frankfurters, Venison Salami, Ostrich Stick |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|-----------------------|----|---------------------------------|--------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Game Meat Products | 3c | Processed Game Meat Products | Frozen | | | x | x | | | x | | Bison Sausages, Venison Patties, Wild Boar Meatballs, Bison Meatloaf, Buffalo Jerky, Kangaroo Jerky, Bison Frankfurters, Venison Salami, Ostrich Stick |

Tables 2J: Information that you should consider for potential ingredient or other food-related chemical hazards for Grains, Beans and Grain Products

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|----------|---|---------------------------------------|--------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Grains | 1 | Raw grains | Shelf-Stable | | | | | х | х | | | Wheat, Rye, Sorghum, Oats, Barley, Triticale, Buckwheat, Corn, Soy, Rice, Teff, Amaranth, Millet, Quinoa |
| Grains | 2 | Heat-treated grains | Shelf-Stable | | | | | | | | | Toasted oats, Puffed rice |
| Beans | 3 | Single component whole, dried | Shelf-Stable | | | | | x | | | | Soybean, Kidney, Haricot, Lima, Pinto, Navy, Azuki, Mung, Black Gram, Scarlet Runner, Ricebean, Moth, Tepary; Horse, Broad, Field; Garden Pea; Chickpea; Cowpea/Black-eyed Pea; Pigeon Pea; Lentil; Bambara Groundnut; Vetch; Lupins; Lablab/hyacinth, Jack, Sword, Winged Bean, Velvet Bean, Yam Bean |
| Beans | 4 | Single component bean/pea/corn: paste | Shelf-Stable | | | | | | | | | Bean paste, Tahini, Hummus |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|-----------------------|----|---|--------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Beans | 5a | Single Component Cooked Beans - no sauce | Refrigerated | | | | | | | | | Lima beans, Black-eyed peas, Lentils, Chickpeas, Kidney Beans, Peas, Edamame |
| Beans | 5b | Single Component Cooked Beans - no sauce | Frozen NRTE | | | | | | | | | Lima beans, Black-eyed peas, Lentils, Chickpeas, Kidney Beans, Peas, Edamame |
| Beans | 5c | Single Component Cooked Beans - no sauce | Frozen RTE | | | | | | | | | Lima beans, Black-eyed peas, Lentils, Chickpeas, Kidney Beans, Peas, Edamame |
| Milled Grain Products | 6 | Flour | Shelf-Stable | | | | | х | х | | | Wheat, Oats, Barley, Rye, Buckwheat, Millet, Amaranth, Quinoa, Soy |
| Milled Grain Products | 7 | Rice and rice products | Shelf-Stable | | | х | | | | | | White or Brown Rice, Sticky/sweet Rice, Basmati Rice, Jasmine Rice, Arborio rice, Rice-based noodles |
| Milled Grain Products | 8 | Seed or bean: Pulse | Shelf-Stable | | | | | X | | | | Garbanzo (Gram), Soy, Lentil, Sesame |
| Milled Grain Products | 9 | Malt | Shelf-Stable | | | | | | | | | Malted Barley |
| Milled Grain Products | 10 | Corn | Shelf-Stable | _ | | | _ | Χ | Χ | | | Cornmeal, Corn Flour |
| Other Milled Products | 11 | Root flours | Shelf-Stable | | | | | | | | | Potato, Cassava |
| Other Milled Products | 12 | Starch products | Shelf-Stable | | | | | | | x | | Cornstarch, Potato Starch, Wheat Starch |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--------------------------------|-----|--|--------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Grain-based Cereal Products | 13a | Cereal Products without Inclusions: Ready-to-Eat | Shelf-Stable | | | | | X | X | | | Dry Cereals |
| Grain-based Cereal Products | 13b | Cereal Products with Inclusions: Ready-to-Eat | Shelf-Stable | | | | | X | X | | | Granola with Raisins and Nuts, Cereals with Marshmallows, Nuts, Chocolate, Confectionary Bits |
| Grain-based Cereal Products | 14 | Breakfast food: Not Ready-to-Eat | Shelf-Stable | | | | | x | X | | | Oatmeal, Farina, Oat Bran, Cream of Wheat, Grits |
| Grain-based Cereal Products | 15 | Cereal products, N.E. C. | Shelf-Stable | | | | | х | х | | | Cereal Bars and Other Nutrition Bars (Baked) |
| Pasta Products | 16a | Unfilled Pasta (not ready to eat) | Refrigerated | | | | | х | | | | Spaghetti, Linguini, Rotini |
| Pasta Products | 16b | Unfilled Pasta (not ready to eat) | Frozen | | | | | х | | | | Spaghetti, Linguini, Rotini |
| Pasta Products | 17a | Filled Par-Boiled Pasta (not ready to eat) | Refrigerated | | | | | | X | | | Mushroom Ravioli, Cheese Tortellini |
| Pasta Products | 17b | Filled Par-Boiled Pasta (not ready to eat) | Frozen | | | | | | Х | | | Mushroom Ravioli, Cheese Tortellini |
| Pasta Products | 18 | Dried pasta (not ready-to- eat) | Shelf-Stable | | | | | х | | | | Spaghetti, Egg Noodles |

Table 2K: Information that you should consider for potential ingredient or other food-related chemical hazards for Multi-Component Foods

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|----------|----|-------------|-----------------------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| | 1a | Entrees | Refrigerated | | | | | | х | | | Vegetarian Lasagna, Pizza, Cheese Enchiladas, Bean Burritos; Tandoori Vegetables, Vegetable Stew, Baked Ziti, Teriyaki Bowl, Vegetable Pot Pie, Meat Analogue Chili |
| | 1b | Entrees | Frozen Ready-to-Eat (RTE) | | | | | | x | | | Vegetarian Lasagna, Pizza, Cheese Enchiladas, Bean Burritos; Tandoori Vegetables, Vegetable Stew, Baked Ziti, Teriyaki Bowl, Vegetable Pot Pie, Meat Analogue Chili |
| | 1c | Entrees | Frozen NOT Ready-to-Eat (NRTE) | | | | | | x | | | Vegetarian Lasagna, Pizza, Cheese Enchiladas, Bean Burritos; Tandoori Vegetables, Vegetable Stew, Baked Ziti, Teriyaki Bowl, Vegetable Pot Pie, Meat Analogue Chili |

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|----------|----|-------------|---------------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| | 2a | Side Dishes | Refrigerated | | | | | | x | х | | Macaroni and Cheese, Cheese and Broccoli Stuffed Baked Potatoes, Creamed Spinach, Broccoli and Rice Casserole, Potatoes Au Gratin, Green Bean Casserole, Corn with Butter Sauce, Mixed Vegetables with Teriyaki Sauce, French Fries, Hash Browned Potatoes, Potato Pancakes, Garlic Mashed Potatoes, Mashed Cinnamon Sweet Potatoes |
| | 2b | Side Dishes | Frozen Ready-to-Eat (RTE) | | | | | | x | x | | Macaroni and Cheese, Cheese and Broccoli Stuffed Baked Potatoes, Creamed Spinach, Broccoli and Rice Casserole, Potatoes Au Gratin, Green Bean Casserole, Corn with Butter Sauce, Mixed Vegetables with Teriyaki Sauce, French Fries, Hash Browned Potatoes, Potato Pancakes, Garlic Mashed Potatoes, Mashed Cinnamon Sweet Potatoes |

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|----------|------------|--------------|-----------------------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| | 2 c | Side Dishes | Frozen NOT Ready-to-Eat (NRTE) | | | | | | х | х | | Macaroni and Cheese, Cheese and Broccoli Stuffed Baked Potatoes, Creamed Spinach, Broccoli and Rice Casserole, Potatoes Au Gratin, Green Bean Casserole, Corn with Butter Sauce, Mixed Vegetables with Teriyaki Sauce, French Fries, Hash Browned Potatoes, Potato Pancakes, Garlic Mashed Potatoes, Mashed Cinnamon Sweet Potatoes |
| | 3 | Deli Salads | Refrigerated | | | | | | | | | Three Bean Salad, Redskin Potato Salad, Egg Salad, Pasta Salad, Crunchy Broccoli Salad, Cole Slaw |
| | 4a | Lunch Dishes | Refrigerated | | | | | х | | | | Peanut Butter and Jam Sandwich, Black Bean Burger, Croissant Sandwiches, Spinach Feta Sandwiches, Soy Meat Alternative Sandwiches |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|----------|----|--------------------------------|-----------------------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| | 4b | Lunch Dishes | Frozen Ready-to-Eat (RTE) | | | | | x | | | | Peanut Butter and Jam Sandwich, Black Bean Burger, Croissant Sandwiches, Spinach Feta Sandwiches, Soy Meat Alternative Sandwiches |
| | 4c | Lunch Dishes | Frozen NOT Ready-to-Eat (NRTE) | | | | | X | | | | Peanut Butter and Jam Sandwich, Black Bean Burger, Croissant Sandwiches, Spinach Feta Sandwiches, Soy Meat Alternative Sandwiches |
| | 5a | Appetizers and Hors d 'Oeuvres | Refrigerated | | | | | | х | х | | Mozzarella Sticks, Cheese Stuffed Jalapenos, Toasted Ravioli, Vegetable Egg Rolls, Cream Cheese Wontons, Stuffed Potato Skins |
| | 5b | Appetizers and Hors d 'Oeuvres | Frozen Ready-to-Eat (RTE) | | | | | | х | х | | Mozzarella Sticks, Cheese Stuffed Jalapenos, Toasted Ravioli, Vegetable Egg Rolls, Cream Cheese Wontons, Stuffed Potato Skins |

| | | | Draje Noc joi n | | | | | | | Sa | | |
|----------|----|--|-----------------------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| | 5c | Appetizers and Hors d 'Oeuvres | Frozen NOT Ready-to-Eat (NRTE) | | | | | | х | х | | Mozzarella Sticks, Cheese Stuffed Jalapenos, Toasted Ravioli, Vegetable Egg Rolls, Cream Cheese Wontons, Stuffed Potato Skins |
| | 6a | Breakfast Items | Refrigerated | | | | | | | x | | Tofu Scramble, Egg and Cheese Breakfast Wrap, Spinach Feta Quiche, Egg, Sausage and Cheese Biscuits |
| | 6b | Breakfast Items | Frozen Ready-to-Eat (RTE) | | | | | | | x | | Tofu Scramble, Egg and Cheese Breakfast Wrap, Spinach Feta Quiche, Egg, Sausage and Cheese Biscuits |
| | 6c | Breakfast Items | Frozen NOT Ready-to-Eat (NRTE) | | | | | | | x | | Tofu Scramble, Egg and Cheese Breakfast Wrap, Spinach Feta Quiche, Egg, Sausage and Cheese Biscuits |
| | 7 | Meals (Entrees, Breakfast Items) Dehydrated | Shelf-Stable | | | | | | | х | | Lentil Stew, Vegetarian Chili, Pasta Alfredo, Pasta Primavera, Tortilla Soup, Southwestern Scrambled Eggs, Biscuits and Gravy, Breakfast Skillet, |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|----------|---|-------------|--------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| | 8 | Side Dishes | Shelf-Stable | | | | | | | x | | Macaroni and Cheese, Potatoes Au Gratin, Seasoned Stuffing Mix, Seasoned Grain Blends, Flavored Rice |

Table 2L: Information that you should consider for potential ingredient or other food-related chemical hazards for Nuts and Seeds

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|----------|---|---|--------------------|----------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Nuts | 1 | Groundnuts, Raw: In-shell | Shelf-Stable | | | | | Х | | | | Peanuts |
| Nuts | 2 | Groundnuts, Raw: Shelled | Shelf-Stable | | | | | Х | | | | Peanuts |
| Nuts | 3 | Groundnuts, Roasted: Inshell, Unseasoned | Shelf-Stable | | | | | | | | | Dry Roasted Peanuts (unsalted) |
| Nuts | 4 | Groundnuts, Roasted: Shelled, Unseasoned | Shelf-Stable | | | | | | | | | Roasted Peanuts (unsalted) |
| Nuts | 5 | Groundnuts, Roasted: Inshell, Seasoned | Shelf-Stable | | | | | | | х | | Salted Peanuts, Barbecue Peanuts, Hickory Smoke Peanuts |
| Nuts | 6 | Groundnuts, roasted: Shelled, Seasoned | Shelf-Stable | | | | | | | х | | Honey Mustard Peanuts, Sweet Maui Onion Peanuts, Cocoa Peanuts |
| Nuts | 7 | Tree Nuts, Raw: In-Shell | Shelf-Stable | | | | | x | | | | Almonds, Brazil Nuts, Cashews, Chestnuts, Filbert/Hazelnuts, Macadamias, Pecans, Pine Nuts, Pistachios, Walnuts, Betel Nut, Gingko, Lotus Nuts, Coconuts |

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|----------|----|--|--------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Nuts | 8 | Tree Nuts, Raw: Shelled | Shelf-Stable | | | | | x | | | | Almonds, Brazil Nuts, Cashews, Chestnuts, Filbert/Hazelnuts, Macadamias, Pecans, Pine Nuts, Pistachios, Walnuts, Betel Nut, Gingko, Lotus Nuts |
| Nuts | 9 | Tree nuts, roasted: In-shell unseasoned | Shelf-Stable | | | | | | | | | Almonds, Brazil Nuts, Cashews, Chestnuts, Filbert/Hazelnuts, Macadamias, Pecans, Pine Nuts, Pistachios, Walnuts, Betel Nut, Gingko, Lotus Nuts |
| Nuts | 10 | Tree nuts, roasted: Shelled, unseasoned | Shelf-Stable | | | | | | | | | Almonds, Brazil Nuts, Cashews, Chestnuts, Filbert/Hazelnuts, Macadamias, Pecans, Pine Nuts, Pistachios, Walnuts, Betel Nut, Gingko, Lotus Nuts |
| Nuts | 11 | Tree nuts, roasted: In-shell Seasoned | Shelf-Stable | | | | | | | x | | Salted Macadamia Nuts, Spicy Jalapeno Pistachios, Lemon and Lime Pistachios, |

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|--------------|----|---|--------------------|-----------------------------|----------------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Nuts | 12 | Tree nuts, roasted: Shelled, Seasoned | Shelf-Stable | | | | | | | х | | Spicy Almonds, Hickory Smoked Almonds, Hot Chili Pepper Roasted Pistachios, Cinnamon and Sugar Walnuts, Cocoa Coated Almonds |
| Edible Seeds | 13 | In-Shell, Raw | Shelf-Stable | | | | | | | | | Pumpkin, Sunflower, Melon |
| Edible Seeds | 14 | Shelled, Raw | Shelf-Stable | | | | | | | | | Pumpkin, Sunflower, Melon |
| Edible Seeds | 15 | In-Shell, Roasted, Unseasoned | Shelf-Stable | | | | | | | | | Pumpkin, Sunflower, Melon |
| Edible Seeds | 16 | Shelled/No Shell , Roasted, Unseasoned | Shelf-Stable | | | | | | | | | Pumpkin, Sunflower, Melon, Hemp, Sesame, Flaxseed/Linseed |
| Edible Seeds | 17 | In-Shell, Roasted, Seasoned | Shelf-Stable | | | | | | | x | | Cajun Spiced Pumpkin Seeds, Salted Pumpkin Seeds, Barbecue Sunflower Seeds, Dill Sunflowers Seeds, Ranch Sunflower Seeds |
| Edible Seeds | 18 | Shelled/No Shell , Roasted, Seasoned | Shelf-Stable | | | | | | | X | | Cinnamon and Sugar Pumpkin Seeds, Tomato Italioano Pumpkin Seeds, Sea Salted Pumpkin Seeds |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--------------------------------|-----|-------------------------|--------------------|-----------------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Nut and Seed Butters | 19a | Butters | Shelf-Stable | | | | | х | | | | Peanut Butter, Almond Butter, Cashew Butter, Hazelnut Butter |
| Nut and Seed Butters | 19b | Butters | Refrigerated | | | | | х | | | | Peanut Butter, Almond Butter, Cashew Butter, Hazelnut Butter |
| Other Nut and Seed Products | 20 | Single-component Pastes | Shelf-Stable | | | | | х | | | | Peanut Paste, Lotus Seed Paste, Sesame Seed Paste/Tahini, Pistachio Paste, Pumpkin Seed Paste/Pipian |
| Other Nut and Seed Products | 21 | Nut Flours | Shelf-Stable | | | | | х | | | | Coconut Flour, Almond Flour, Pistachio Flour, Pumpkin Seed Flour |
| Other Nut and Seed Products | 22 | Coconut Products | Shelf-Stable | | | | | | | | | Shredded Coconut, Coconut Flakes, Toasted Coconut |

Table 2M: Information that you should consider for potential ingredient or other food-related chemical hazards for Oils and Oils Products

| Category | # | Subcategory | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--------------|---|------------------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Oil Products | 1 | Cooking Oils | | | | | X | | | | Corn, Soy Bean, Peanut, Safflower, Sesame, Cotton Seed, Canola, Olive, Sunflower, Blends |
| Oil Products | 2 | Margarines and other spreads | | | | | | | х | | Oleomargarine |
| Oil Products | 3 | Shortening | | | | | | | | | Vegetable, Imitation/Substitute Vegetable Shortening |

Table 2N: Information that you should consider for potential ingredient or other food-related chemical hazards for Snack Foods

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|----------|---|--|--------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Baked | 1 | Bread snacks, Unseasoned | Shelf-Stable | | | | | | | | | Breadsticks, Mini Toast, Poori, Crostini, Pretzels, Crackers |
| Baked | 2 | Bread snacks, Seasoned | Shelf-Stable | | | | | | | x | | Honey Mustard Pretzels, Garlic Bagel Chips, Cinnamon Mini Toast, Garlic and Herb Crackers |
| Baked | 3 | Bread Snacks with Filling, Unseasoned | Shelf-Stable | | | | | | | | | Peanut Butter Pretzels, Cheese Pretzels |
| Baked | 4 | Bread Snacks with Filling, Seasoned | Shelf-Stable | | | | | | | x | | Italian Cheese Pretzels, Buffalo Bleu Cheese Baked Snacks, Pepperoni Pizza Baked Snacks, Salsa Tortilla Baked Snacks |
| Baked | 5 | Grain snacks Unseasoned | Shelf-Stable | | | х | | х | | | | Puffed Rice Snacks, Wheat Crackers, Rice Crackers, Whole Grain Crackers |
| Baked | 6 | Grain Snacks Seasoned | Shelf-Stable | | | х | | х | | х | | Cheddar Cheese Rice Cakes, Caramel Corn Cakes |

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|----------|----|-------------------------------------|--------------------|-----------------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Fried | 7 | Chips, Puffs, Crisps, Unseasoned | Shelf-Stable | | | | | х | | | | Potato Chips, Corn Chips, Cheese Puffs, Lentil Chips, Sweet Potato Chips, Mixed Root Vegetable Crisps, Tortilla Chips, |
| Fried | 8 | Chips, Puffs, Crisps, Seasoned | Shelf-Stable | | | | | x | | x | | Sour Cream and Onion Potato Chips, Barbecue Potato Chips, Sriracha Tortilla Chips |
| Fried | 9 | Bread snacks Unseasoned | Shelf-Stable | | | | | | | | | Bagel Chips, Pita Chips |
| Fried | 10 | Bread snacks Seasoned | Shelf-Stable | | | | | | | х | | Garlic Pita Crisps, Everything Bagel Chips |
| Fried | 11 | Dehydrated Fruit snacks | Shelf-Stable | | | | | | | | | Plantain Chips, Banana Chips, Durian Chips, Jackfruit Chips, Apple Chips, Pineapple Chips |
| Fried | 12 | Grain Snacks Unseasoned | Shelf-Stable | | | | | x | | | | Barley Grain Snack, Millet Grain Snack, Rice Grain Snacks, Multigrain Chips, Popped Popcorn |
| Fried | 13 | Grain Snacks Seasoned | Shelf-Stable | | | | | х | | х | | White Cheddar Popcorn, Harvest Cheddar Multigrain Chips, French Onion Multi-Grain Chips |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--------------|-----|------------------------------|--------------------|-----------------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Cold Pressed | 14 | Snack Food Bars | Shelf-Stable | | | | | х | | x | | Granola Bars, Cranberry Almond Bars, Fruit and Nut Bars, Coated Bars |
| Other | 15 | Snack Blends | Shelf-Stable | | | | | х | | X | | Trail mix; Yogurt Covered Raisins, Coated Nuts |
| Other | 16a | Pudding and gelatin products | Shelf-Stable | | | | | | | x | | Flavored Gelatin Snacks, Chocolate Pudding, Tapioca Pudding, Vanilla Pudding |
| Other | 16b | Pudding and gelatin products | Refrigerated | | | | | | | x | | Flavored Gelatin Snacks, Chocolate Pudding, Tapioca Pudding, Vanilla Pudding |
| Other | 17 | Non-Dairy Frozen Desserts | Frozen | | | | | | | X | | Ice Pops, Fruit Pops, Soy Milk Frozen Desserts, Sorbet |

Table 20: Information that you should consider for potential ingredient or other food-related chemical hazards for Soups and Sauces

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|---------------------------|----|---|--------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Soups, Sauces, Gravies | 1 | Dry Mixes, Powder | Shelf-stable | | | | | х | х | х | | Noodle Soup, French Onion Soup, Bouillon Cubes, Bullion Powder, Brown Soup Base, Hollandaise Sauce, Turkey Gravy, Béarnaise Sauce, Beef Gravy |
| Soups, Sauces, Gravies | 2 | Base, paste | Shelf-Stable | | | | | | | х | | Chicken Base, Beef Base, Vegetable Base, Seafood Base, Turkey Base |
| Soups, Sauces, Gravies | 3a | Ready-to-Eat (RTE), Full Strength Liquid | Refrigerated | | | | | | | x | | Beef-based Soup, Stew, Chili, Chicken Soup, French Onion Soup, Mushroom Soup, Turkey Soup, Potato Soup, Chicken Broth, Consommé, Peanut Sauce, Stir-Fry Sauce, Black Bean Sauce, Chili Sauce, Tandoori Sauce, Tomato Sauce, Broccoli and Cheese Soup, Tortilla Soup, Vegetarian Vegetable Soup, Tartar Sauce, Barbecue Sauce |

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|---------------------------|----|---|--------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Soups, Sauces, Gravies | 3b | Ready-to-Eat (RTE), Full Strength Liquid | Frozen | | | | | | | х | | Beef-based Soup, Stew, Chili, Chicken Soup, French Onion Soup, Mushroom Soup, Turkey Soup, Potato Soup, Chicken Broth, Consommé, Peanut Sauce, Stir-Fry Sauce, Black Bean Sauce, Chili Sauce, Tandoori Sauce, Tomato Sauce, Broccoli and Cheese Soup, Tortilla Soup, Vegetarian Vegetable Soup, Tartar Sauce, Barbecue Sauce |
| Soups, Sauces, Gravies | 4a | Condensed (Concentrated), Liquid | Refrigerated | | | | | | | x | | Beef-based Soup, Stew, Chili, Chicken Soup, French Onion Soup, Mushroom Soup, Turkey Soup, Potato Soup, Chicken Broth, Consommé, Peanut Sauce, Stir-Fry Sauce, Black Bean Sauce, Chili Sauce, Tandoori Sauce, Tomato Sauce, Broccoli and Cheese Soup, Tortilla Soup, Vegetarian Vegetable Soup, Tartar Sauce, Barbecue Sauce |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|---------------------------|----|-------------------------------------|--------------------|-----------------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Soups, Sauces, Gravies | 4b | Condensed (Concentrated), Liquid | Frozen | | | | | | | x | | Beef-based Soup, Stew, Chili, Chicken Soup, French Onion Soup, Mushroom Soup, Turkey Soup, Potato Soup, Chicken Broth, Consommé, Peanut Sauce, Stir-Fry Sauce, Black Bean Sauce, Chili Sauce, Tandoori Sauce, Tomato Sauce, Broccoli and Cheese Soup, Tortilla Soup, Vegetarian Vegetable Soup, Tartar Sauce, Barbecue Sauce |

Table 2P: Information that you should consider for potential ingredient or other food-related chemical hazards for Spices and Herbs

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|------------------------------------|---|--------------------------|--------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Untreated, Raw Herbs and Spices | 1 | Dried, ground or cracked | Shelf-Stable | | | x | | x | | x | | Cinnamon, Turmeric, Paprika, Pepper (Black, White, Red), Cayenne Powder, Cumin, Coriander, Mustard, Fenugreek, Horseradish, Fennel Seeds, Caraway, All-spice, Nutmeg, Ginger, Garlic (Minced or Powder), Onion (Minced or Powder), Celery Seed |
| Untreated, Raw Herbs and Spices | 2 | Dried, whole | Shelf-Stable | | | | | | x | | | Cinnamon, Cardamom, Fenugreek, Cloves, Nutmeg, Cumin, Anise, fennel Seeds, Caraway, Chili Peppers, Saffron, Peppercorns (Black or White), Coriander, Basil, Varieties of Chili Peppers |
| Untreated, Raw Herbs and Spices | 3 | Dried herbs | Shelf-Stable | | | | | | | | | Basil, Oregano, Thyme, Sage, Parsley, Bay Leaf, Dill, Rosemary, Cilantro, Mint, Kaffir Lime, Chives, Peppermint |

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|--------------------------|----|--|--------------------|-----------------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|--|
| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
| Treated Herbs and Spices | 4 | Irradiated | Shelf-Stable | | | | | | | | | Various |
| Treated Herbs and Spices | 5 | Chemically Treated (EtOH, PPO) | Shelf-Stable | | | | | | | х | | Various |
| Treated Herbs and Spices | 6 | Steam Pasteurization | Shelf-Stable | | | | | | | | | Various |
| Seasonings | 7a | Pastes | Shelf-Stable | | | | | | | X | | Basil Paste, Garlic Paste, Jerk Seasoning Paste |
| Seasonings | 7b | Pastes | Refrigerated | | | | | | | Х | | Basil Paste, Garlic Paste, Jerk Seasoning Paste |
| Seasonings | 8 | Essential Oils | Shelf-Stable | | | | | | | | | Basil, Cinnamon, Clove, Ginger, Lemongrass |
| Seasonings | 9 | Spice and seasoning mixtures, Dry Blends | Shelf-Stable | | | | | х | | x | | Taco Mix, Chili Powder, Curry Powder, Multi-Spice Mix, Adobo Seasoning, Garam Masala, Berebere, Oriental Five-Spice, Crab Snack & Dip Seasoning, Meat Coatings and Rubs, Seafood Seasonings, Scampi Seasoning, Powdered Seasonings, Popcorn Seasonings |

| Category | # | Subcategory | Storage Conditions | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|------------|----|--------------------------------------|--------------------|-----------------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Seasonings | 10 | Spice and seasoning mixtures, Liquid | Shelf-Stable | | | | | | | X | | Fajita Seasoning Sauce, Kung Pao Seasoning Sauce |

Table 2Q: Information that you should consider for potential ingredient or other food-related chemical hazards for Food Sweeteners (Nutritive and Non-Nutritive)

| Category | # | Subcategory | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--|---|--------------------------------------|----------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Food Sweeteners (Nutritive and Non- Nutritive) | 1 | Sugars (Dry) | | | | | | | x | | Brown Sugar (Sucrose), Beet Sugar(Sucrose), Invert Sugar, Maple Sugar, Malt Sugar (Maltose), Grape Sugar (Fructose), Corn Syrup Solids, Corn Sugar (Dextrose), Cane Sugar (Sucrose), Milk Sugar, Date sugar, Palm Sugar |
| Food Sweeteners (Nutritive and Non- Nutritive) | 2 | Syrup/Molasses (Liquid) | | | | | | | X | | Sorghum Syrup, Maple Syrup, High Fructose Corn Syrup, Molasses, Pancake and Waffle Syrup, Simple Syrup, Liquid Sucrose, Agave Syrup, Rice Syrup |
| Food Sweeteners (Nutritive and Non- Nutritive) | 3 | Honey (Liquid) | | x | | | | x | | | Comb Honey, Strained Honey, Whipped Honey |
| Food Sweeteners (Nutritive and Non- Nutritive) | 4 | Imitation Syrup/Molasses (Liquid) | | | | | | | х | | Imitation Maple Syrup, Imitation Honey |

| Category | # | Subcategory | Undeclared allergens | Drug residues | Heavy metals | Industrial chemicals | Mycotoxins/Natural toxins | Pesticides | Unapproved colors & additives | Radiological | Example Products |
|--|---|----------------------------------|-----------------------------|---------------|--------------|----------------------|---------------------------|------------|-------------------------------|--------------|---|
| Food Sweeteners (Nutritive and Non- Nutritive) | 5 | Food Sweeteners (Nutr) N.E.C. | | | | | | | X | | Nutritive Sugar Substitutes, Sorbitol, Xylitol, Isomalt, Tagatose, Maltitol, Lactitol |
| Food Sweeteners (Nutritive and Non- Nutritive) | 6 | Food Sweeteners (Non- nutr) | | | | | | | x | | Aspartame, Saccharin, Acesulfame K, Neotame, Stevia, Sucralose |

Process Hazards Tables

Table 3A: Information that you should consider for potential process-related biological, chemical, and physical hazards for Bakery Items

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | formation due to poor formulation control | formation due to reduced oxygen packaging | Kecontamination Witn environmental pathogens | Recontamination que to lack or container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|---|------------|---|-----------------------|--|---|--|---|---|---|--|--------------------------------------|---|-------|--------------------------------------|--|
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 1 a | Bread, Biscuits, Rolls, Cookie Dough, Pizza/Pie Crust | Refrigerated | | Х | | | x | | x | x | x | x | | Buttermilk biscuits, Cinnamon rolls, Croissants, Pizza Crust, Chocolate Chip Cookie Dough, Puff Pastry, Phyllo |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 1b | Bread, Biscuits, Rolls, Cookie Dough, Pizza/Pie Crust | Frozen | | х | | | х | | х | х | x | x | | Buttermilk biscuits, Cinnamon rolls, Croissants, Pizza Crust, Chocolate Chip Cookie Dough, Puff Pastry, Phyllo |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 2a | Parbaked/ParBoiled Bread, Biscuits, Rolls, Cookie Dough, Pizza/Pie Crust | Refrigerated | | х | | | x | | x | x | x | x | | Artisan breads, Bagels, Biscuits, Rolls, Croissant, Pizza Crust |

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|---|----|---|-----------------------|---|---|---|--|-----------------|---|--|--------------------------------------|--|-------|--------------------------------------|--|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | formation due to poor formulation control | formation due to reduced oxygen packaging | in envii ens | кесоптатпатоп que to lack or container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 2b | Parbaked/ParBoiled Bread, Biscuits, Rolls, Cookie Dough, Pizza/Pie Crust | Frozen | | X | | | х | | x | х | х | x | | Artisan breads, Bagels, Biscuits, Rolls, Croissant, Pizza Crust |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 3 | Liquid Batter | Refrigerated | | x | x | | x | | x | x | x | x | | Pancake batter, Brownie batter, Waffle batter, and Doughnut batter |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 4 | Fruit pies/cobblers | Frozen | | х | х | | х | | х | x | х | х | | Apple/Cherry/Peach Cobbler; Apple, Cherry/ Mixed Berries/etc. Pies |
| Unbaked Bakery Items - Ready-To- Bake (RTB) | 5 | Custard pies | Frozen | | x | х | | х | | х | х | х | х | | Pumpkin and Sweet Potato Pies |

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|---|----|--------------------------------------|--|---|---|---|---|-----------------|---|--|--------------------------------------|---|-------|--------------------------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | formation due to poor formulation control | formation due to reduced oxygen packaging | tn envii ens | кесоптатпатоп que to lack or container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Fully-Baked Without Filling, No Topping/Frosting | 6 | Bread, Whole/Pre- sliced | Shelf-Stable, Refrigerated or Frozen | x | | | | x | | x | x | х | х | | Breads (e.g., White, Wheat, Rye, Oat Bran, Pumpernickel), Cheese Breads, Raisin Breads; Cornbread, Plain or Flavored Biscuits, Bagels, Rolls, Croissants, Pita Bread, Pumpkin Bread |
| Fully-Baked Without Filling, No Topping/Frosting | 7a | Cakes/Muffins/Brow nies/ Doughnut | Shelf-Stable | x | | | | x | | X | X | x | х | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |
| Fully-Baked Without Filling, No Topping/Frosting | 7b | Cakes/Muffins/Brow nies/ Doughnut | Refrigerated | x | | | | х | | х | x | x | х | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |
| Fully-Baked Without Filling, No Topping/Frosting | 7c | Cakes/Muffins/Brow nies/ Doughnut | Frozen | x | | | | x | | x | x | x | x | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | formation due to poor formulation control | formation due to reduced oxygen packaging | Kecontamination Witn environmental pathogens | Kecontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Fully-Baked Without Filling, No Topping/Frosting | 8 | Cookies | Shelf-Stable | x | | | | x | | x | x | x | X | | Chocolate Chip, Peanut Butter, Biscotti, Lemon, Butter Cookies, Brownies, Wafers, Oatmeal Cookies, Fruit, Cream or Chocolate- Filled Crisps/Bars, Wafers |
| Fully-Baked Without Filling, No Topping/Frosting | 9a | Other Pastry Products | Refrigerated | x | x | x | | x | | x | x | x | x | | French Toast, Blueberry Pancakes, Waffles |
| Fully-Baked Without Filling, No Topping/Frosting | 9b | Other Pastry Products | Frozen | x | х | x | | х | | х | X | x | х | | French Toast, Blueberry Pancakes, Waffles |
| Fully-Baked Including Fillings, No Topping/Frosting | 10 | Bread, Whole/Pre- sliced | Shelf-Stable, Refrigerated or Frozen | х | | x | | x | | x | X | x | x | | Cheese Breads, Raisin Breads; Cornbread, Flavored Biscuits, Chocolate Croissants, Pumpkin Bread, Banana Nut Bread |

| | | | Storage | a lethal | h and/or toxin e to lack of ture control | | | | n aue to lack of integrity | ns - Incorrect label | ns - cross-contact | ds due to mis- ulfites, yellow #5) | al | t packed in glass) | |
|--|-----|--------------------------------------|--------------|--|---|---|------------------------------------|---|--|--|--------------------------------------|---|-------|--------------------------------------|---|
| Category | # | Subcategory | Conditions | Bacterial pathogen survival of treatment | Bacterial growth a formation due t time/temperatu | formation due to poor formulation control | formation due to redu packaging | Recontamination witn environmental pathogens | Kecontamination que to container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Fully-Baked Including Fillings, No Topping/Frosting | 11a | Cakes/Muffins/Brow nies/ Doughnut | Shelf-Stable | x | | | | x | | X | X | х | x | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |
| Fully-Baked Including Fillings, No Topping/Frosting | 11b | Cakes/Muffins/Brow nies/ Doughnut | Refrigerated | x | | x | | x | | X | X | x | x | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |
| Fully-Baked Including Fillings, No Topping/Frosting | 11c | Cakes/Muffins/Brow nies/ Doughnut | Frozen | x | | x | | x | | X | X | x | x | | Chocolate, Vanilla, Yellow, Marble, Sponge Cake, Pound Cake, Cheesecakes |
| Fully-Baked Including Fillings, No Topping/Frosting | 12a | Fruit Pies/Cobblers | Shelf-Stable | x | | | | x | | X | X | x | X | | Various Fruit Pies (Apple/Cherry/Blueberry, Rhubarb, Mixed Berry/etc.) |
| Fully-Baked Including Fillings, No Topping/Frosting | 12b | Fruit Pies/Cobblers | Refrigerated | x | X | | | x | | x | x | x | X | | Various Fruit Pies (Apple/Cherry/Blueberry, Rhubarb, Mixed Berry/etc.) |

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | formation due to poor formulation control | formation due to reduced oxygen packaging | wuo. | кесоптатпацоп que to гаск от container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|--|-------------|---------------------|-----------------------|---|---|---|---|------|---|--|--------------------------------------|---|-------|--------------------------------------|---|
| Fully-Baked Including Fillings, No Topping/Frosting | 12 c | Fruit Pies/Cobblers | Frozen | х | x | | | X | | X | X | х | X | | Various Fruit Pies (Apple/Cherry/Blueberry, Rhubarb, Mixed Berry/etc.) |
| Fully-Baked Including Fillings, No Topping/Frosting | 13a | Custard/Crème Pie | Shelf-Stable | x | X | x | | x | | x | X | x | x | | Pumpkin/Sweet Potato, Lemon Pie, Key Lime Pie; Coconut Custard |
| Fully-Baked Including Fillings, No Topping/Frosting | 13b | Custard/Crème Pie | Refrigerated | x | х | х | | x | | x | x | х | х | | Pumpkin/Sweet Potato, Lemon Pie, Key Lime Pie; Coconut Custard |
| Fully-Baked Including Fillings, No Topping/Frosting | 13c | Custard/Crème Pie | Frozen | х | х | х | | х | | х | x | х | х | | Pumpkin/Sweet Potato, Lemon Pie, Key Lime Pie; Coconut Custard |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | formation due to poor formulation control | formation due to reduced oxygen packaging | ıtn envil gens | кесоптатпатоп que to lack or container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Fully-Baked Including Fillings, No Topping/Frosting | 14 | Cookies | Shelf-Stable | x | | | | х | | x | х | x | x | | Chocolate Chip, Peanut Butter, Biscotti, Lemon, Butter Cookies, Brownies, Wafers, Oatmeal Cookies, Fruit, Cream or Chocolate- Filled Crisps/Bars, Wafers |
| Fully-Baked Including Fillings, No Topping/Frosting | 15a | Other Pastry Products | Refrigerated | x | х | х | | х | | X | х | х | х | | French Toast, Blueberry Pancakes, Waffles |
| Fully-Baked Including Fillings, No Topping/Frosting | 15b | Other Pastry Products | Frozen | x | х | x | | х | | x | x | x | x | | French Toast, Blueberry Pancakes, Waffles |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 16 | Bread, Whole/Pre- sliced | Shelf-Stable, Refrigerated or Frozen | x | x | x | | x | | X | x | x | x | | Bread with Drizzles/Frosting |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | formation due to poor formulation control | formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Kecontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 17a | Cakes/Muffins/Brow nies/ Doughnut | Shelf-Stable | х | | x | | X | | x | X | x | x | | Cakes/Muffin/Cheesecake s with Frosting and Topping (cream, nuts, confectionery and dried fruits, etc.); Black Forest Torte |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 17b | Cakes/Muffins/Brow nies/ Doughnut | Refrigerated | x | x | x | | x | | x | x | x | x | | Cakes/Muffin/Cheesecake s with Frosting and Topping (cream, nuts, confectionery and dried fruits, etc.); Black Forest Torte |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 17c | Cakes/Muffins/Brow nies/ Doughnut | Frozen | х | x | x | | x | | x | X | x | x | | Cakes/Muffin/Cheesecake s with Frosting and Topping (cream, nuts, confectionery and dried fruits, etc.); Black Forest Torte |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 18a | Fruit Pies/Cobblers | Shelf-Stable | x | | x | | x | | X | x | х | x | | Fruit Pies/Cobblers with Drizzles and Cream Topping |

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|--|-----|---------------------|-----------------------|---|---|---|--|-----------------|---|--|--------------------------------------|---|-------|--------------------------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | formation due to poor formulation control | formation due to reduced oxygen packaging | in envir ens | кесоптатпатоп due to lack от container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 18b | Fruit Pies/Cobblers | Refrigerated | x | х | х | | x | | X | х | х | X | | Fruit Pies/Cobblers with Drizzles and Cream Topping |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 18c | Fruit Pies/Cobblers | Frozen | x | х | х | | х | | х | х | х | х | | Fruit Pies/Cobblers with Drizzles and Cream Topping |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 19a | Custard/Crème Pie | Shelf-Stable | x | х | х | | x | | х | х | х | х | | Pumpkin and Sweet Potato Pies, Key Lime Pie, Coconut Custard Pie, Fruit Topped Cheesecake |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 19b | Custard/Crème Pie | Refrigerated | x | х | х | | х | | х | х | х | х | | Pumpkin and Sweet Potato Pies, Key Lime Pie, Coconut Custard Pie, Fruit Topped Cheesecake |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 19c | Custard/Crème Pie | Frozen | x | X | х | | X | | X | X | х | x | | Pumpkin and Sweet Potato Pies, Key Lime Pie, Coconut Custard Pie, Fruit Topped Cheesecake |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | formation due to poor formulation control | formation due to reduced oxygen packaging | nination with envil pathogens | кесоптатлатоп que to гаск от container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 20 | Cookies | Shelf-Stable | х | | х | | х | | х | х | х | х | | Cream-Filled Sandwich Cookies |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 21a | Other Pastry Products | Refrigerated | x | x | х | | x | | x | X | x | x | | Danishes, Éclair, Cream Puffs, Cannoli, Doughnuts, Toaster Pastries, Apple Turnovers, Baklava with Additions after Baking |
| Fully-Baked with Post Bake Added Filling, Frosting and/or Topping | 21b | Other Pastry Products | Frozen | x | x | x | | x | | x | x | x | x | | Danishes, Éclair, Cream Puffs, Cannoli, Doughnuts, Toaster Pastries, Apple Turnovers, Baklava with Additions after Baking |
| Assembled Cream Pies | 22a | Custard/Crème Pie | Refrigerated | x | x | x | | x | | x | x | x | X | | French Silk, Chocolate Cream Pie, Coconut Cream Pie, Peanut Butter Pie, Meringue Pies |

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | octerial growth and/or toxin formation due to lack of time/temperature control | formation due to poor formulation control | ed oxygen | чесоптатиот witn environmental pathogens | кесоптатипатоп аие то гаск от container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|--------------------------|-----|-------------------------------------|-----------------------|---|--|--|-----------|---|--|--|--------------------------------------|--|-------|--------------------------------------|---|
| | | | | Bacterial | Bacterial formati time/ter | formatic | formation | Kecontan | Кесоп | Undeclare | Undeclar | Chem formulati | | Glass (wh | |
| Assembled Cream Pies | 22b | Custard/Crème Pie | Frozen | x | x | x | | x | | x | x | x | x | | French Silk, Chocolate Cream Pie, Coconut Cream Pie, Peanut Butter Pie, Meringue Pies |
| Other Bakery Products | 23a | Tortillas, Soft Shell/Hard Shell | Shelf Stable | х | | | | X | | X | X | х | X | | Soft (Corn, Wheat), Hard Type, Baked, Fried |
| Other Bakery Products | 23b | Tortillas, Soft Shell/Hard Shell | Refrigerated | Х | X | | | X | | X | X | х | X | | Soft (Corn, Wheat), ParBaked |
| Other Bakery Products | 24 | Dry Mixes | Shelf Stable | | | | | x | | X | x | x | x | | Pancake Batter Mixes, Flour Mixes, Cookie Mixes, Cake Mixes, Brownie Mixes, Bread Crumbs, Cornmeal, Biscuits, Breading Mix, Pie Crust Mix |
| Other Bakery Products | 25 | Ice Cream Cones | Shelf Stable | | | | | X | | X | X | х | X | | Sugar cones, regular cone |
| Other Bakery Products | 26 | Croutons/Bread Crumbs | Shelf Stable | | | | | X | | X | X | х | Х | | Unseasoned |
| Other Bakery Products | 27 | Croutons/Bread Crumbs | Shelf Stable | | | | | X | | X | X | х | X | | Seasoned |

Table 3B: Information that you should consider for potential process-related biological, chemical, and physical hazards for Beverage Items

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|--------------------|---|---------------|-----------------------|--|---|---|---|--|--|---|--|--|-------|--------------------------------------|---|
| Ready-to- Drink | 1 | Carbonated | Shelf-Stable | | | | | | х | | | x | x | х | Cola, Root beer, Ginger ale, Fruit- Flavored Soda (Carbonated), Tonic Water, Sparkling Beverages(non- -alcoholic) |
| Ready-to- Drink | 2 | Bottled Water | Shelf-Stable | х | | | | x | x | | | х | x | х | Mineral Water, Spring Water, Water with Fruit Flavors, Sparkling Water, Distilled Water, Carbonated Water |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Ready-to- Drink | 3 | Coffee, plain | Shelf-Stable | | | | | | х | | | | | | Iced Coffee, Regular and Decaffeinated Coffees |
| Ready-to- Drink | 4a | Coffee, Flavored | Shelf-Stable | x | | х | | х | х | х | х | x | x | x | Lattes, Mocha, Café Vanilla, Cappuccino, Hazelnut Coffee |
| Ready-to- Drink | 4b | Coffee, Flavored | Refrigerated | x | x | x | | x | x | x | x | x | x | x | Lattes, Mocha, Café Vanilla, Cappuccino, Hazelnut Coffee |
| Ready-to- Drink | 5a | Chocolate/Coc oa | Shelf-Stable | х | | х | | х | х | х | х | х | x | х | Non-dairy chocolate/ cocoa flavored drinks |
| Ready-to- Drink | 5b | Chocolate/Coc oa | Refrigerated | х | х | х | | x | х | x | х | X | х | x | Non-dairy chocolate/ cocoa flavored drinks |

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|--------------------|----|---------------|-----------------------|--|---|---|---|--|--|---|--|--|-------|--------------------------------------|--|
| Ready-to- Drink | 6a | Tea, Plain | Shelf-Stable | х | | х | | x | x | | | х | х | x | Sweet Tea, Iced Tea, Regular and Decaffeinated Teas, Low Calorie Tea |
| Ready-to- Drink | 6b | Tea, Plain | Refrigerated | | x | x | | x | x | | | x | x | х | Sweet Tea, Iced Tea, Regular and Decaffeinated Teas, Low Calorie Tea |
| Ready-to- Drink | 7a | Tea, Flavored | Shelf-Stable | х | | x | | х | x | x | x | х | x | x | Flavored Teas (Fruit, Botanicals), Tea Blends, Regular and Decaffeinated, Regular and Low Calorie |

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|--------------------|----|----------------|-----------------------|--|---|---|---|--|--|---|--|--|-------|--------------------------------------|--|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Ready-to- Drink | 7b | Tea, Flavored | Refrigerated | | х | х | | X | x | X | x | х | x | x | Flavored Teas (Fruit, Botanicals), Tea Blends, Regular and Decaffeinated, Regular and Low Calorie |
| Ready-to- Drink | 8a | Juice-Based | Shelf-Stable | x | | х | | x | х | | | х | х | Х | Fruit Drinks with Some Juice Content (not 100% juice) |
| Ready-to- Drink | 8b | Juice-Based | Refrigerated | | х | х | | x | x | | | х | x | х | Fruit Drinks with Some Juice Content (not 100% juice) |
| Ready-to- Drink | 9a | Other Flavored | Shelf-Stable | x | | X | | x | x | | | x | x | x | Fruit Flavored Drink, Fruit Punch, Lemonade |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Ready-to- Drink | 9b | Other Flavored | Refrigerated | | х | х | | х | x | | | х | х | х | Fruit Flavored Drink, Fruit Punch, Lemonade |
| Ready-to- Drink | 10 a | Drinks with Supplements | Shelf-Stable | x | | х | | x | x | | | x | х | х | Caffeinated Energy Beverages, Sports Drinks, Vitamin Waters, Drinks with Herbal Infusions |
| Ready-to- Drink | 10 b | Drinks with Supplements | Refrigerated | | х | | | x | x | | | х | х | х | Caffeinated Energy Beverages, Sports Drinks, Vitamin Waters, Drinks with Herbal Infusions |
| Ready-to- Drink | 11 | Milk Substitute | Refrigerated | x | x | | | х | х | х | x | X | X | X | Rice milk, Soy milk, Almond Milk |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Coffee Beans/Tea Leaves | 12 | Coffee, Plain | Shelf-Stable | | | | | | | | | | | | Whole Roasted Coffee Beans, Ground Coffee, Single Serve Coffee Containers |
| Coffee Beans/Tea Leaves | 13 | Coffee, Flavored | Shelf-Stable | | | | | x | | | | | | | Hazelnut Coffee, Vanilla Coffee, Single Serve Coffee Containers |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Coffee Beans/Tea Leaves | 14 | Tea, Loose Leaf and Bagged, Tea Substitutes | Shelf-Stable | | | | | x | | | | x | | | Black Tea, Green Tea, Oolong Tea, Chai Tea, Tea With Blends of Fruits, Botanicals, Grains, etc., Tea Substitute (Chamomile, Rose Hip, Mint, Sassafras, and Barley), Single Serve Tea Containers |
| Powdered Beverages | 15 | Instant Coffee | Shelf-Stable | | | | | | | | | | | | Instant Coffee, Coffee Substitute (Chicory Root Powder, Roast Cereal) |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Powdered Beverages | 16 | Cocoa/Chocola te | Shelf-Stable | | | | | x | | х | x | | | | Breakfast Cocoa, Chocolate Dairy Mix, Cocoa Dairy Mix, Cappuccino Mix |
| Powdered Beverages | 17 | Powdered drink and flavoring mixes | Shelf-Stable | | | | | х | | х | х | | | | Flavoring powder, Grape, Orange, Lemon-Lime |
| Powdered Beverages | 18 | Instant Tea | Shelf-Stable | | | | | х | | х | х | | | | Lemon- flavored powdered tea |
| Powdered Beverages | 19 | Coffee Creamer - Non- Dairy | Shelf-Stable | | | | | х | | х | х | | | | Non Dairy Coffee Creamer |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Liquid Beverage Mixes | 20 | Base mix, Concentrated | Shelf-Stable | | | | | | | | | | | | Cola Base, Root beer Base, Flavored Drink Syrups, Tea Concentrates, Coffee Concentrates |
| Liquid Beverage Mixes | 21 | Dairy-based mixes | Shelf-Stable | x | | х | | x | x | x | x | х | x | | Breakfast Cocoa, Chocolate Dairy Mix, Cocoa Dairy Mix, Cappuccino Mix |
| Liquid Beverage Mixes | 22 | Mixes intended for alcoholic beverages | Shelf-Stable | | | х | | x | x | x | x | х | x | х | Mohito Mix, Bloody Mary Mix, Margarita Mix, Cocktail Mix, Pina Colada Mix |

Table 3C: Information that you should consider for potential process-related biological, chemical, and physical hazards for Food Additives

| Category | # | Subcategory | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|----------------------------------|---|---|--|---|---|---|--|--|---|--------------------------------------|---|-------|--------------------------------------|--|
| Emulsifiers | 1 | Emulsifiers | | | | | | | | | | | | Soy Lecithin, Egg Lecithin, Mono- and Diglycerides, Polysorbates, Sorbitan Monostearate |
| Stabilizers and Thickeners | 2 | Firming Agents | | | | | | | | | | | | Calcium Chloride, Calcium Lactate |
| Stabilizers and Thickeners | 3 | Humectants | | | | | | | | | | | | Glycerin, Sorbitol |
| Stabilizers and Thickeners | 4 | Leavening Agents | | | | | | | | | | | | Baking Soda, Monocalcium Phosphate, Calcium Carbonate |
| Stabilizers and Thickeners | 5 | Stabilizers, Thickeners, Binders, Texturizers | | | | | | | | | | | | Gelatin, Pectin, Carrageenan, Modified Starches, Acacia Gum, Guar Gum, Xanthan Gum, Whey Protein, Soy Protein, High Activity Dried Yeast |
| Stabilizers and Thickeners | 6 | Dough Strengtheners and Conditioner | | | | | | | | | | | | Ammonium sulfate, Azodicarbonamide, and L- cysteine |

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| Category | # | Subcategory | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Stabilizers and Thickeners | 7 | Anti-caking Agents | | | | | | | | | | | | Calcium Silicate, Iron Ammonium Citrate, Silicon Dioxide |
| Enzymes | 8 | Enzymes | | | | | | | | | | | | Lactase, Papain, Chymosin |
| Enzymes | 9 | Starch/Sugar Liquefaction | | | | | | | | | | | | Amylases |
| Enzymes | 10 | Bakery | | | | | | | | | | | | Xylanase, Lipases, Amylases, Proteases |
| Enzymes | 11 | Dairy | | | | | | | | | | | | Rennet |
| Colors | 12 | Certified Colors | | | | | | | | | | | | FD&C Blue Nos. 1 and 2, FD&C Green No. 3, FD&C Red Nos. 3 and 40, FD&C Yellow No. 5 (tartrazine), No. 6, Orange B, Citrus Red No. 2 |
| Colors | 13 | Natural Colors | | | | | | | | | | | | Annatto Extract, Caramel, Beta-Carotene, Grape Skin Extract, Cochineal Extract, Chlorophyllin, Betanin, Carmine, Paprika Oleoresin, Caramel color, Saffron |

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|----------|----|-----------------------------|--|---|---|---|--|--|---|--------------------------------------|---|-------|--------------------------------------|--|
| Category | # | Subcategory | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Flavors | 14 | Liquid: Oil-Based | | | | | | | | | | | | Sesame oil, Fruit oils, Almond oil, Cinnamon oil, Anise oil, Spearmint oil, Peppermint oil, Ginger oil |
| Flavors | 15 | Liquid: Water-Based | | | | | | | | | | | | Various |
| Flavors | 16 | Liquid: Alcohol- Based | | | | | | | | | | | | Various |
| Flavors | 17 | Liquid: Glycol-Based | | | | | | | | | | | | Various |
| Flavors | 18 | Powdered: Natural Flavor | | | | | | | х | | | | | Vanilla Powder, Butter powder, Jasmine, Cinnamon, Orange blossom, Key Lime |
| Flavors | 19 | Artificial: Synthetic | | | | | | | | | | | | Cinnamon Raisin Flavor, Marshmallow Flavor, Watermelon Flavor, Strawberry Flavor, Grape Flavor, Cherry Flavor, Imitation Almond Extract, Imitation Coconut Extract |
| Flavors | 20 | Other: Flavor Enhancer | | | | | | | х | | | | | Monosodium Glutamate, Autolyzed Yeast Extract, Hydrolyzed Vegetable Proteins, Disodium Guanylate, Inosinate |

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|----------------------------------|----|----------------------------------|--|---|---|---|--|--|---|--------------------------------------|---|-------|--------------------------------------|--|
| Category | # | Subcategory | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Flavors | 21 | Flavor Pother: Paste | | | | | | | | Х | | | | Vanilla Bean Paste |
| Other Chemical Ingredients | 22 | Processing Chemicals | | | | | | | | | | | | Potassium Hydroxide, Potassium Bicarbonate, Potassium Chloride, Hydrochloric Acid, Sodium Hydroxide, Ferrous Sulfate, Magnesium Sulfate, Mineral Oil |
| Other Chemical Ingredients | 23 | Organic Acids | | | | | | | | | | | | Acetic Acid, Citric Acid, Lactic Acid, Fumaric Acid |
| Other Chemical Ingredients | 24 | Additives | | | | | | | | | | | | Antioxidants, Vitamin Blends, Butylated Hydroxy Toluene (BHT), d-alpha- tocopherol acetate (TOCO) |
| Other Chemical Ingredients | 25 | Antimicrobials and Preservatives | | | | | | | | | | | | Nisiplin, Lauric Arginate, Potassium Sorbate |
| Other Chemical Ingredients | 26 | Processing Aid Gases | | | | | | | | | | | | Nitrogen, Carbon Dioxide |

Table 3D: Information that you should consider for potential process-related biological, chemical, and physical hazards for Chocolate and Candy

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis-formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|-------------------------------------|---|--|-----------------------|---|---|---|---|--|--|--|--------------------------------------|---|-------|--------------------------------------|--|
| Chocolate Industrial Products | 1 | Chocolate/Coco a Products For Baking (Including Bulk Solid and Bulk Liquid) | Shelf-Stable | х | | | | x | | x | х | х | x | | Bittersweet Chocolate, Semisweet Chocolate, Unsweetened Chocolate, Milk Chocolate, Chocolate Chips, Chocolate Morsels, Cocoa Powder, White Chocolate |
| Chocolate Industrial Products | 2 | Other Products for Baking (Including Bulk Solid and Bulk Liquid) | Shelf-Stable | x | | | | х | | х | х | х | х | | Butterscotch Morsels, Peanut Butter Morsels |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis-formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Chocolate Industrial Products | 3 | Chocolate Coating for Enrobing (Including Bulk Solid and Bulk Liquid) | Shelf-Stable | x | | | | x | | x | x | х | x | | Compound Coatings, White Chocolate |
| Chocolate and Confectionery Products | 4 | Chocolate Confections | Shelf-Stable | x | | | | x | | x | x | X | x | | Milk Chocolate Bar, Dark/white Chocolate Bar, Fudge, bonbons |

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|--|---|---|-----------------------|---|--|--|--|--|--|--|--------------------------------------|--|-------|--------------------------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis-formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Chocolate and Confectionery Products | 5 | Chocolate Confections - With Inclusions | Shelf-Stable | x | | 174 | | x | | x | x | X | x | | Chocolate Covered Nuts (e.g., Almonds, Pecans, Macadamia Nuts), Chocolate Candy Bar with Nuts, Chocolate Covered Raisins, Chocolate Covered Cherry, Chocolate with coconut, Chocolate with crisped rice, Fruit and Nut Chocolate Bar, Fudge with nuts, Chocolate Covered Biscuit, Chocolate Covered Caramel , Chocolate Covered Mints, Chocolate Covered Nougat or English Toffee |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis-formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Chocolate and Confectionery Products | 6 | Sugar Confections | Shelf-Stable | | | x | | x | | x | x | X | × | | Mint, Rock Candy, Lollipop, Lemon Drops, Caramel Candy Bar, Gummy gel Candies, Fruit Chews, Soft Toffee, Licorice Candy, Marshmallow, Soft Jellied Candy, Soft Caramel Squares, Gel Cups Candy, Creams, Pastes, Pastilles |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis-formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Chocolate and Confectionery Products | 7 | Sugar Confections with inclusions | Shelf-Stable | | | х | | х | | х | x | х | х | | Nut brittles (Peanut Brittle, Almond Brittle), Nut Clusters, Candy with fruit pieces |
| Chocolate and Confectionery Products | 8 | Sugar Confections Specialties (w/o Chocolate) | Shelf-Stable | | | x | | x | | х | x | x | x | | Caramel/Candie d Apple, Candy Coated Popcorn, Cereal Confection, Marzipan, Coconut Roll, Cake Decoration, Peanut butter fudge, Cotton Candy |

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| | Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis-formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Top ting | ppings/Fros g | 9 | Toppings and Frosting (Non Fruit/Nut) | Shelf-Stable | | | х | | | | x | x | x | x | | Butterscotch Topping, Caramel Topping, Vanilla Frosting, Sour Cream Frosting, Chocolate Flavored Syrup (Hot Fudge) |

Table 3E: Information that you should consider for potential process-related biological, chemical, and physical hazards for Dairy

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|---|---|---|-----------------------|--|---|---|---|--|--|---|--|--|-------|--------------------------------------|--|
| Dairy - Dry Powders | 1 | Dry milk products | Shelf-Stable | x | | | | x | | | | | x | | Dried Milk, Whey Powder, Instant Nonfat Dry Milk, Whey Protein Powder |
| Dairy - Milk and Butter | 2 | Butter products | Refrigerated | x | x | | | х | | x | x | | X | | Butter, Butter Spreads, Unsalted Butter Blends |
| Dairy - Milk and Butter | 3 | Pasteurized Milk and cream products | Refrigerated | x | x | | | x | | x | x | | x | | Fluid White Milk, Flavored Milks, Buttermilk, Creams (Heavy, Light, Whipping), Goat Milk, Sheep Milk |
| Dairy - Milk and Butter | 4 | Cultured milk products | Refrigerated | x | x | | | х | | х | х | | X | | Sour cream, Plain/Flavored Yogurt |
| Dairy, Milk and Milk Products Shelf- Stable | 5 | Ultra-High Temperature Liquid Dairy Products | Shelf-Stable | x | | | | x | х | х | х | | x | | Dairy Creamer, UHT Milk, Flavored Creamers |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Dairy, Milk and Milk Products Shelf- Stable | 6 | Stabilized Liquid Milk Products | Shelf-Stable | x | | | | х | x | | | | х | | Evaporated Milk, Sweetened Condensed Milk |
| Dairy - Milk, Frozen | 7 | Ice cream, regular and low fat (no inclusions) | Frozen | x | x | | | x | | x | x | x | x | | Vanilla, Chocolate, Strawberry, Coconut |
| Dairy - Milk, Frozen | 8 | Ice cream, regular and low fat with inclusions | Frozen | x | х | | | x | | x | x | x | x | | Butter Pecan, Mint Chocolate Chip, Fudge Ripple, Rocky Road, Cherry Vanilla, Black Raspberry, Peppermint Cookie |
| Dairy - Milk, Frozen | 9 | Sherbets | Frozen | х | Х | | | х | | х | х | х | х | | All Flavors , Pineapple, Raspberry, Orange |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Cnemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Dairy - Milk, Frozen | 10 | Frozen Novelty Items | Frozen | Х | x | | | х | | х | x | x | x | | Milk Shakes, Ice Cream Cakes, Ice Cream Sandwiches, Chocolate Covered Ice Cream Bar, Chocolate/Nut Topped Ice Cream Desserts, Frozen Yogurt |
| Dairy - Cheese and Cheese Products - Whole | 11 a | Cheese (not soft) | Shelf-Stable | X | | | | x | | x | x | | x | | Hard Cheese, Cheddar Cheese, Parmesan Cheese, Asiago Cheese |
| Dairy - Cheese and Cheese Products - Whole | 11 b | Cheese (not soft) | Refrigerated | X | X | | | x | | x | x | | x | | Hard Cheese, Cheddar Cheese, Parmesan Cheese, Asiago Cheese |

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|--|---------|--------------------------------------|-----------------------|--|---|---|---|--|--|---|--|--|-------|--------------------------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Dairy - Cheese and Cheese Products - Whole | 12 | Semi-soft cheese | Refrigerated | x | х | | | x | | x | x | | X | | Blue, Monterey, Muenster, Provolone, Oaxaca, Stilton, Colby, Monterey Jack, Mozzarella, Edam, Gouda |
| Dairy - Cheese and Cheese Products - Whole | 13 | Soft, ripened cheese | Refrigerated | x | X | | | x | | x | x | | x | | Brie, Camembert, Grayson, Cheese Curd |
| Dairy - Cheese and Cheese Products - Whole | 14 | Soft, unripened cheese/ fresh cheese | Refrigerated | X | x | | | x | | x | x | | x | | Cottage Cheese, Cream Cheese, Ricotta, Queso Fresco, Cheese Curd, Goat Cheese |
| Dairy - Cheese and Cheese Products - Sliced, Shredded, or Grated | 15 a | Cheese (not soft) | Shelf-Stable | x | x | | x | x | | | | | X | | Hard Cheese, Cheddar Cheese, Parmesan Cheese, Asiago Cheese |

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|--|---------|---------------------|-----------------------|---|---|---|---|--|--|---|--|--|-------|--------------------------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Dairy - Cheese and Cheese Products - Sliced, Shredded, or Grated | 15 b | Cheese (not soft) | Refrigerated | x | x | | х | x | | | | | X | | Hard Cheese, Cheddar Cheese, Parmesan Cheese, Asiago Cheese |
| Dairy - Cheese and Cheese Products - Sliced, Shredded, or Grated | 16 | Semi-soft cheese | Refrigerated | x | x | | х | x | | | | | x | | Monterey, Muenster, Provolone, Oaxaca, Colby, Monterey Jack, Mozzarella |

Table 3F: Information you should consider for potential process-related biological, chemical, and physical hazards for Dressings, Condiments, and Dips

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|------------|------------|-------------|-----------------------|--|---|---|---|--|--|---|--|---|-------|---|---|
| Condiments | 1 a | Mayonnaise | Shelf-Stable | | | x | | | X | х | х | | x | x | Mayonnaise (Regular and Lite), Chipotle Mayonnaise, Mayonnaise, Wasabi Mayonnaise, Sweet Chili Mayonnaise |
| Condiments | 1b | Mayonnaise | Refrigerated | | х | х | | x | X | х | х | | x | x | Mayonnaise (Regular and Lite), Chipotle Mayonnaise, Mayonnaise, Wasabi Mayonnaise, Sweet Chili Mayonnaise |

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|------------|----|---------------------|-----------------------|--|---|---|---|--|--|---|--|---|-------|---|--|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Condiments | 2a | Mustard | Shelf-Stable | | | | | _ | х | | | | х | х | Yellow, Spicy, Sriracha Mustard, Garlic and Oregano Mustard |
| Condiments | 2b | Mustard | Refrigerated | | | | | х | x | | | | X | x | Yellow, Spicy, Sriracha Mustard, Garlic and Oregano Mustard |
| Condiments | 3 | Ketchup | Shelf-Stable | | | Х | | | Х | | | | Х | Х | Tomato Ketchup |
| Condiments | 4 | Vinegar | Shelf-Stable | | | | | | | | | | | х | Balsamic, Apple Cider, Wine Vinegar, Grape Vinegar |
| Condiments | 5 | Other Condiments | Shelf-Stable | x | | х | | | x | x | x | x | x | x | Soy Sauce, Worcestershire Sauce, Horseradish Sauce, Steak Sauce, Tabasco Sauce |

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|-----------------|----|--------------------------------|-----------------------|--|---|---|---|--|--|---|--|---|-------|---|--|
| Salad Dressings | 6a | Dressings, salad (prepared) | Shelf-Stable | X | | x | | x | х | х | х | х | x | x | Berries and Balsamic, Ranch, Spinach Vinaigrette, Caesar, Blue Cheese Vinaigrette, Sesame Dressing, Yogurt-based salad dressings |
| Salad Dressings | 6b | Dressings, salad (prepared) | Refrigerated | X¹ | X¹ | x | | x | X | x | x | x | x | x | Berries and Balsamic, Ranch, Spinach Vinaigrette, Caesar, Blue Cheese Vinaigrette, Sesame Dressing, Yogurt-based salad dressings |
| Salad Dressings | 7 | Dry mixes | Shelf-Stable | | | | | х | | x | x | | х | | Dried mixes to be added to oil, water, and vinegar |

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|----------|----|------------------|-----------------------|--|---|---|---|--|--|---|--|---|-------|---|--|
| Dips | 8a | Dips and spreads | Shelf-Stable | х | | x | | x | x | х | х | х | x | x | Guacamole, Salsa, Dairy- based Dips and Spreads, Bean Dips, Vegetable Dips, Taco Dip, cheese spreads, parmesan and asiago dip, 7 layer dip |
| Dips | 8b | Dips and spreads | Refrigerated | х | x | x | х | х | х | x | х | х | x | x | Guacamole, Salsa, Dairy- based Dips and Spreads, Bean Dips, Vegetable Dips, Taco Dip, cheese spreads, parmesan and asiago dip, 7 layer dip |

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|----------|---|-----------------------|-----------------------|--|---|---|---|--|--|---|--|---|-------|--------------------------------------|---|
| Dips | 9 | Dips and spreads, dry | Shelf-Stable | | | | | х | | x | x | | x | | Dry Dips, Dry Dairy-based Dips and Spreads (e.g., Vegetable Dip Seasoning, Toasted Onion Dip Mix) |

¹This hazard may be considered for cold--filled products of this type.

Table 3G: Information that you should consider for potential process-related biological, chemical, and physical hazards for Egg and Egg Products

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|---|----|--|-----------------------|--|---|---|---|--|--|---|--------------------------------------|--|-------|--------------------------------------|---|
| Shell Eggs | 1 | Shell Eggs Raw | Refrigerated | | Х | | | | | | | | | | Shell Eggs, Raw |
| Shell Eggs | 2 | Shell Eggs: Pasteurized in Shell | Refrigerated | x | x | | | | | | | | | | Pasteurized in Shell Eggs |
| Further Processed Egg Products | 3 | Eggs Hard Boiled: In shell | Refrigerated | x | x | | | | | | | | | | Hard Boiled Eggs in Shell |
| Further Processed Egg Products | 4 | Eggs Hard Boiled: Shelled | Refrigerated | x | x | | х | х | | | | | | | Hard Boiled Eggs Shelled |
| Further Processed Egg Products | 5a | Cooked Egg Products, Ready-to-Eat (RTE) and Not Ready-to-Eat (NRTE) | Refrigerated | x | x | | х | x | | x | x | | X | | Omelets, Egg Patties, Scrambled Eggs |

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|---|----|--|-----------------------|--|---|---|---|--|--|---|--------------------------------------|---|-------|--------------------------------------|--|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Further Processed Egg Products | 5b | Cooked Egg Products, Ready-to-Eat (RTE) and Not Ready-to-Eat (NRTE) | Frozen | х | x | | | x | | x | x | | х | | Omelets, Egg Patties, Scrambled Eggs |
| Imitation Egg Products | 6a | Imitation Egg products and Egg Substitutes | Shelf-stable | х | | | | х | | х | х | | х | | Soy-based products; vegetable and grain-based products |
| Imitation Egg Products | 6b | Imitation Egg products and Egg Substitutes | Refrigerated | x | | | | x | | x | x | | x | | Southwest Flavored Imitation Egg Product (Liquid), Florentine Imitation Egg Product (Liquid), Imitation Omelets, Imitation Egg Patties, Imitation Scrambled Eggs |
| Imitation Egg Products | 6c | Imitation Egg products and Egg Substitutes | Frozen | x | | | | X | | x | x | | X | | Imitation Omelets, Egg Patties, Scrambled Eggs |

Table 3H: Information that you should consider for potential process-related biological, chemical, and physical hazards for Fruits and Vegetables

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|-----------|---|--|-----------------------|--|---|---|---|--|--|---|--|---|-------|--------------------------------------|---|
| Fresh Cut | 1 | Fresh cut vegetables | Refrigerated | | X | | x | X | | | | | x | | Leafy Greens (Single and Mixed Greens), Shredded Carrots, Avocado Chunks, Leafy green salad blends, Diced Onions, Cut Tomatoes, Sliced Mushrooms |
| Fresh Cut | 2 | Fresh cut fruits | Refrigerated | | х | | | х | | | | | х | | Mixed Fruit Salad; Packaged Single Fruits, Cut Melon, Apple Slices, Cut Pineapple, Cut Mango |
| Frozen | 3 | Vegetables Ready-to-Eat (RTE) | Frozen | x | x | | | x | | | | | x | | Broccoli, Carrots, Corn- sweet, Cauliflower, Garlic, Kale, Peas, Snow peas, Spinach |
| Frozen | 4 | Vegetables, Not Ready- to-Eat (NRTE) | Frozen | | x | | | x | | | | | x | | Eggplants, Okra, Potatoes, Sweet potatoes, Winter squash |

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|-----------------------|---|--|-----------------------|--|---|---|---|--|--|---|--|---|-------|--------------------------------------|--|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/femperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Frozen | 5 | Fruits | Frozen | | x | | | X | | | | | x | | Raspberries, Melon, Blueberries, Sliced Strawberries, Tropical Fruit Blend, Mangoes, Pineapple |
| Refrigerated | 6 | Prepared Fruit Products Ready-to-Eat (RTE) | Refrigerated | | x | x | | x | x | | | x | x | | Cinnamon Apples, Cherry Mixed Fruit in Juice, Diced Peaches, Diced Pears, Red Grapefruit |
| Dried / Dehydrated | 7 | Dried Fruits | Shelf-Stable | | | х | | X | | x | x | х | X | | Raisins, Cranberries, Papaya, Pineapple, Mango, Blends |
| Dried / Dehydrated | 8 | Dehydrated Vegetables | Shelf-Stable | | | х | | x | | х | х | х | х | | Peas, Celery, Onions, Carrots, Tomatoes, Green Beans, Wasabi Peas |
| Further Processed | 9 | Acidified Vegetables | Shelf-Stable | | | x | | x | x | | | х | x | x | Pickled Cucumbers, Pickled Beets, Cocktail Onions, Pickled Turnips, Hearts of Palm, Capers, Roasted Peppers, Roasted Tomatoes, Salsa |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Further Processed | 9a | Acidified Vegetables | Refrigerated | | х | x | | x | x | | | х | x | x | Pickled Cucumbers, Pickled Beets, Cocktail Onions, Pickled Turnips, Hearts of Palm, Capers, Roasted Peppers, Roasted Tomatoes, Salsa |
| Further Processed | 11a | Fermented Vegetables | Shelf-Stable | | | Х | | Х | х | | | Х | х | Х | Sauerkraut, Pickles, Kimchi |
| Further Processed | 11b | Fermented Vegetables | Refrigerated | | х | х | | Х | Х | | | Х | х | Х | Sauerkraut, Pickles, Kimchi |
| Further Processed | 12a | Infused Oils | Shelf-Stable | | | х | | | | | | | х | x | Garlic in Oil, Chili Pepper Oil, Lemon Oil, Sun Dried Tomatoes in Oil |
| Further Processed | 12b | Infused Oils | Refrigerated | | х | х | | | | | | | х | x | Garlic in Oil, Chili Pepper Oil, Lemon Oil, Sun Dried Tomatoes in Oil |
| Further Processed | 13 | Other Processed Fruits | Shelf-Stable | x | | x | | x | | | | | x | x | Jams, Jellies, Chutneys |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Further Processed | 14a | Acid Fruits and Vegetables | Shelf-Stable | | | x | | x | x | | | | x | x | Applesauce, Flavored Applesauce, Tomato Paste, Tomato Puree, Apricot Puree |
| Further Processed | 14b | Acid Fruits and Vegetables | Refrigerated | | x | x | | x | x | | | | x | x | Applesauce, Flavored Applesauce, Tomato Paste, Tomato Puree, Apricot Puree |

Table 3I: Information that you should consider for potential process-related biological, chemical, and physical hazards for Game Meats

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|--------------------------|----|------------------------------------|--------------------------|--|---|---|---|--|--|---|--------------------------------------|---|-------|--------------------------------------|--|
| Raw Game Meat | 1 | Not Ground Game Meat | Refrigerated & Frozen | | х | | | х | | | | | x | | Bison Steak, Deer Shoulder, Alligator Steak, Bear, Antelope, Caribou, Elk, Moose, Reindeer, Wild Boar, Snake, Rabbit, Squirrel, Beaver, and Birds (Pheasant, Grouse, Quail, Wild Turkey, Wild geese). |
| Raw Game Meat | 2 | Ground Game Meat | Refrigerated & Frozen | | х | | | х | | | | | x | | Ground Venison, Ground Rabbit, Ground Alligator |
| Game Meat Products | 3a | Processed Game Meat Products | Shelf-Stable | х | | х | | х | х | х | х | х | x | | Buffalo Jerky, Alligator Jerky, Venison Salami, Ostrich Stick |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Game Meat Products | 3b | Processed Game Meat Products | Refrigerated | x | х | x | x | х | х | x | х | х | х | | Bison Sausages, Venison Patties, Wild Boar Meatballs, Bison Meatloaf, Buffalo Jerky, Kangaroo Jerky, Bison Frankfurters, Venison Salami, Ostrich Stick |
| Game Meat Products | 3c | Processed Game Meat Products | Frozen | x | х | x | | х | x | x | x | х | x | | Bison Sausages, Venison Patties, Wild Boar Meatballs, Bison Meatloaf, Buffalo Jerky, Kangaroo Jerky, Bison Frankfurters, Venison Salami, Ostrich Stick |

Table 3J: Information that you should consider for potential process-related biological, chemical, and physical hazards for Grains, Beans and Grain Products

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Example Products |
|----------|---|---------------------|-----------------------|--|---|---|---|--|--|---|--|---|-------|--|
| Grains | 1 | Raw grains | Shelf-Stable | | | | | x | | | | x | x | Wheat, Rye, Sorghum, Oats, Barley, Triticale, Buckwheat, Corn, Soy, Rice, Teff, Amaranth, Millet, Quinoa |
| Grains | 2 | Heat-treated grains | Shelf-Stable | Х | | | | х | | | | х | | Toasted oats, Puffed rice |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Example Products |
| Beans | 3 | Single component whole, dried | Shelf-Stable | | X | | | X | | | | | X | Soybean, Kidney, Haricot, Lima, Pinto, Navy, Azuki, Mung, Black Gram, Scarlet Runner, Ricebean, Moth, Tepary; Horse, Broad, Field; Garden Pea; Chickpea; Cowpea/Black-eyed Pea; Pigeon Pea; Lentil; Bambara Groundnut; Vetch; Lupins; Lablab/hyacinth, Jack, Sword, Winged Bean, Velvet Bean, Yam Bean |
| Beans | 4 | Single component bean/pea/corn dried: paste | Shelf-Stable | | | х | | x | | | | | X | Bean paste, Tahini, Hummus |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Example Products |
| Beans | 5a | Single Component Cooked Beans - no sauce | Refrigerated | x | x | | | x | | | | | X | Lima beans, Black- eyed peas, Lentils, Chickpeas, Kidney Beans, Peas, Edamame |
| Beans | 5b | Single Component Cooked Beans - no sauce | Frozen NRTE | x | х | | | x | | | | | x | Lima beans, Black- eyed peas, Lentils, Chickpeas, Kidney Beans, Peas, Edamame |
| Beans | 5c | Single Component Cooked Beans - no sauce | Frozen RTE | x | х | | | x | | | | | x | Lima beans, Black- eyed peas, Lentils, Chickpeas, Kidney Beans, Peas, Edamame |

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|--------------------------|----|------------------------|-----------------------|--|---|---|---|--|--|---|--|---|-------|---|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Example Products |
| Milled Grain Products | 6 | Flour | Shelf-Stable | | | | | x | | | | х | X | Wheat, Oats, Barley, Rye, Buckwheat, Millet, Amaranth, Quinoa, Soy |
| Milled Grain Products | 7 | Rice and rice products | Shelf-Stable | | x | | | x | | | | | x | White or Brown Rice, Sticky/sweet Rice, Basmati Rice, Jasmine Rice, Arborio rice, Rice-based noodles |
| Milled Grain Products | 8 | Seed or bean: Pulse | Shelf-Stable | | | | | х | | | | | X | Garbanzo (Gram), Soy, Lentil, Sesame |
| Milled Grain Products | 9 | Malt | Shelf-Stable | | | | | х | | | | х | X | Malted Barley |
| Milled Grain Products | 10 | Corn | Shelf-Stable | | | | | Х | | | | X | X | Cornmeal, Corn Flour |
| Other Milled Products | 11 | Root flours | Shelf-Stable | | | | | X | | | | | X | Potato, Cassava |

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|--------------------------------|-----|---|-----------------------|--|---|---|---|--|--|---|--|---|-------|---|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Example Products |
| Other Milled Products | 12 | Starch products | Shelf-Stable | | | | | х | | | | | X | Cornstarch, Potato Starch, Wheat Starch |
| Grain-based Cereal Products | 13a | Cereal Products without Inclusions: Ready-to-Eat | Shelf-Stable | | x | | | x | | x | x | х | x | Dry Cereals |
| Grain-based Cereal Products | 13b | Cereal Products with Inclusions: Ready-to-Eat | Shelf-Stable | | x | | | x | | x | x | x | x | Granola with Raisins and Nuts, Cereals with Marshmallows, Nuts, Chocolate, Confectionary Bits |
| Grain-based Cereal Products | 14 | Breakfast food: Not Ready-to-Eat | Shelf-Stable | | | | | х | | х | х | х | х | Oatmeal, Farina, Oat Bran, Cream of Wheat, Grits |
| Grain-based Cereal Products | 15 | Cereal products, N.E. C. | Shelf-Stable | х | | | | х | | х | х | х | х | Cereal Bars and Other Nutrition Bars (Baked) |
| Pasta Products | 16a | Unfilled Pasta (not ready to eat) | Refrigerated | x | x | | х | х | | х | x | | x | Spaghetti, Linguini, Rotini |
| Pasta Products | 16b | Unfilled Pasta (not ready to eat) | Frozen | x | x | | | х | | х | x | | x | Spaghetti, Linguini, Rotini |

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Example Products |
|----------------|-----|--|-----------------------|--|---|---|---|--|--|---|--|---|-------|--|
| Pasta Products | 17a | Filled Par-Boiled Pasta (not ready to eat) | Refrigerated | х | x | | х | х | | х | х | х | x | Mushroom Ravioli, Cheese Tortellini |
| Pasta Products | 17b | Filled Par-Boiled Pasta (not ready to eat) | Frozen | х | x | | | х | | х | х | х | x | Mushroom Ravioli, Cheese Tortellini |
| Pasta Products | 18 | Dried pasta (not ready-to-eat) | Shelf-Stable | х | | | | | | х | х | | X | Spaghetti, Egg Noodles |

Table 3K: Information that you should consider for potential process-related biological, chemical, and physical hazards for Multi-Component Foods

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|-------------------------------|----|-------------|-------------------------------|--|---|---|---|--|--|---|--------------------------------------|---|-------|--------------------------------------|---|
| Multi - component foods | 1a | Entrees | Refrigerated | х | х | | х | х | х | х | x | x | x | | Vegetarian Lasagna, Pizza, Cheese Enchiladas, Bean Burritos; Tandoori Vegetables, Vegetable Stew, Baked Ziti, Teriyaki Bowl, Vegetable Pot Pie, Meat Analogue Chili |
| Multi - component foods | 1b | Entrees | Frozen Ready- to-Eat (RTE) | х | х | | | х | | х | х | x | x | | Vegetarian Lasagna, Pizza, Cheese Enchiladas, Bean Burritos; Tandoori Vegetables, Vegetable Stew, Baked Ziti, Teriyaki Bowl, Vegetable Pot Pie, Meat Analogue Chili |

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|-------------------------------|----|-------------|--------------------------------------|---|---|---|---|--|--|---|--------------------------------------|---|-------|--------------------------------------|---|
| Multi - component foods | 1c | Entrees | Frozen NOT Ready-to-Eat (NRTE) | х | х | | | x | | х | x | x | x | | Vegetarian Lasagna, Pizza, Cheese Enchiladas, Bean Burritos; Tandoori Vegetables, Vegetable Stew, Baked Ziti, Teriyaki Bowl, Vegetable Pot Pie, Meat Analogue Chili |

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|-------------------------------|----|-------------|-----------------------|--|---|---|---|--|--|---|--------------------------------------|---|-------|--------------------------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Multi - component foods | 2a | Side Dishes | Refrigerated | x | X | | x | x | x | x | x | x | x | | Macaroni and Cheese, Cheese and Broccoli Stuffed Baked Potatoes, Creamed Spinach, Broccoli and Rice Casserole, Potatoes Au Gratin, Green Bean Casserole, Corn with Butter Sauce, Mixed Vegetables with Teriyaki Sauce, French Fries, Hash Browned Potatoes, Potato Pancakes, Garlic Mashed Potatoes, Mashed Cinnamon Sweet Potatoes |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Multi- component foods | 2b | Side Dishes | Frozen Ready- to-Eat (RTE) | x | X | | | x | | x | x | x | х | | Macaroni and Cheese, Cheese and Broccoli Stuffed Baked Potatoes, Creamed Spinach, Broccoli and Rice Casserole, Potatoes Au Gratin, Green Bean Casserole, Corn with Butter Sauce, Mixed Vegetables with Teriyaki Sauce, French Fries, Hash Browned Potatoes, Potato Pancakes, Garlic Mashed Potatoes, Mashed Cinnamon Sweet Potatoes |

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|-------------------------------|------------|-------------|--------------------------------------|--|---|---|---|--|--|---|--------------------------------------|---|-------|--------------------------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Multi - component foods | 2 c | Side Dishes | Frozen NOT Ready-to-Eat (NRTE) | | X | | | x | | x | x | x | X | | Macaroni and Cheese, Cheese and Broccoli Stuffed Baked Potatoes, Creamed Spinach, Broccoli and Rice Casserole, Potatoes Au Gratin, Green Bean Casserole, Corn with Butter Sauce, Mixed Vegetables with Teriyaki Sauce, French Fries, Hash Browned Potatoes, Potato Pancakes, Garlic Mashed Potatoes, Mashed Cinnamon Sweet Potatoes |
| Multi - component foods | 3 | Deli Salads | Refrigerated | X | х | X | Х | x | x | x | x | х | X | | Three Bean Salad, Redskin Potato Salad, Egg Salad, Pasta Salad, Crunchy Broccoli Salad, Cole Slaw |

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|-------------------------------|------------|--------------|--------------------------------------|--|---|---|---|--|--|---|--------------------------------------|---|-------|--------------------------------------|--|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Multi - component foods | 4 a | Lunch Dishes | Refrigerated | x | х | | х | X | x | х | X | х | x | | Peanut Butter and Jam Sandwich, Black Bean Burger, Croissant Sandwiches, Spinach Feta Sandwiches, Soy Meat Alternative Sandwiches |
| Multi - component foods | 4b | Lunch Dishes | Frozen Ready- to-Eat (RTE) | x | х | | | X | | x | х | x | x | | Peanut Butter and Jam Sandwich, Black Bean Burger, Croissant Sandwiches, Spinach Feta Sandwiches, Soy Meat Alternative Sandwiches |
| Multi - component foods | 4c | Lunch Dishes | Frozen NOT Ready-to-Eat (NRTE) | | x | | | X | | x | х | x | x | | Peanut Butter and Jam Sandwich, Black Bean Burger, Croissant Sandwiches, Spinach Feta Sandwiches, Soy Meat Alternative Sandwiches |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Multi - component foods | 5a | Appetizers and Hors d 'Oeuvres | Refrigerated | x | х | | х | x | x | x | х | х | x | | Mozzarella Sticks, Cheese Stuffed Jalapenos, Toasted Ravioli, Vegetable Egg Rolls, Cream Cheese Wontons, Stuffed Potato Skins |
| Multi - component foods | 5b | Appetizers and Hors d 'Oeuvres | Frozen Ready- to-Eat (RTE) | x | х | | | x | | x | х | х | x | | Mozzarella Sticks, Cheese Stuffed Jalapenos, Toasted Ravioli, Vegetable Egg Rolls, Cream Cheese Wontons, Stuffed Potato Skins |
| Multi - component foods | 5c | Appetizers and Hors d 'Oeuvres | Frozen NOT Ready-to-Eat (NRTE) | | X | | | x | | x | х | x | X | | Mozzarella Sticks, Cheese Stuffed Jalapenos, Toasted Ravioli, Vegetable Egg Rolls, Cream Cheese Wontons, Stuffed Potato Skins |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Multi - component foods | 6a | Breakfast Items | Refrigerated | х | х | | x | х | х | х | x | x | X | | Tofu Scramble, Egg and Cheese Breakfast Wrap, Spinach Feta Quiche, Egg, Sausage and Cheese Biscuits |
| Multi - component foods | 6b | Breakfast Items | Frozen Ready- to-Eat (RTE) | x | x | | | x | | x | x | x | x | | Tofu Scramble, Egg and Cheese Breakfast Wrap, Spinach Feta Quiche, Egg, Sausage and Cheese Biscuits |
| Multi - component foods | 6c | Breakfast Items | Frozen NOT Ready-to-Eat (NRTE) | | x | | | x | | x | x | x | x | | Tofu Scramble, Egg and Cheese Breakfast Wrap, Spinach Feta Quiche, Egg, Sausage and Cheese Biscuits |
| Multi - component foods | 7 | Meals (Entrees, Breakfast Items) Dehydrated | Shelf-Stable | x | | | | X | | x | x | x | x | | Lentil Stew, Vegetarian Chili, Pasta Alfredo, Pasta Primavera, Tortilla Soup, Southwestern Scrambled Eggs, Biscuits and Gravy, Breakfast Skillet, |

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control Bacterial growth and/or toxin | formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|-------------------------------|---|-------------|-----------------------|--|---|--|---|--|--|---|--------------------------------------|---|-------|--------------------------------------|--|
| Multi - component foods | 8 | Side Dishes | Shelf-Stable | x | | | | x | | x | x | x | X | | Macaroni and Cheese, Potatoes Au Gratin, Seasoned Stuffing Mix, Seasoned Grain Blends, Stuffing Mix, Flavored Rice |

Table 3L: Information that you should consider for potential process-related biological, chemical, and physical hazards for Nuts and Seeds

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|----------|---|---|-----------------------|--|---|---|---|--|--|---|--|---|-------|--------------------------------------|---|
| Nuts | 1 | Groundnuts, Raw: In-shell | Shelf-Stable | | | | | X | | X | х | X | X | | Peanuts |
| Nuts | 2 | Groundnuts, Raw: Shelled | Shelf-Stable | | | | | х | | х | х | Х | х | | Peanuts |
| Nuts | 3 | Groundnuts, Roasted: In- shell, Unseasoned | Shelf-Stable | х | | | | х | | х | х | х | Х | х | Dry Roasted Peanuts (unsalted) |
| Nuts | 4 | Groundnuts, Roasted: Shelled, Unseasoned | Shelf-Stable | х | | | | х | | х | х | х | х | х | Roasted Peanuts (unsalted) |
| Nuts | 5 | Groundnuts, Roasted: In- shell, Seasoned | Shelf-Stable | х | | | | х | | х | х | х | х | х | Salted Peanuts, Barbecue Peanuts, Hickory Smoke Peanuts |
| Nuts | 6 | Groundnuts, roasted: Shelled, Seasoned | Shelf-Stable | х | | | | x | | x | х | x | x | х | Honey Mustard Peanuts, Sweet Maui Onion Peanuts, Cocoa Peanuts |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Nuts | 7 | Tree Nuts, Raw: In-Shell | Shelf-Stable | | | | | x | | x | x | x | X | | Almonds, Brazil Nuts, Cashews, Chestnuts, Filbert/Hazelnuts, Macadamias, Pecans, Pine Nuts, Pistachios, Walnuts, Betel Nut, Gingko, Lotus Nuts, Coconuts |
| Nuts | 8 | Tree Nuts, Raw: Shelled | Shelf-Stable | | | | | x | | x | х | х | x | | Almonds, Brazil Nuts, Cashews, Chestnuts, Filbert/Hazelnuts, Macadamias, Pecans, Pine Nuts, Pistachios, Walnuts, Betel Nut, Gingko, Lotus Nuts |
| Nuts | 9 | Tree nuts, roasted: In- shell unseasoned | Shelf-Stable | x | | | | x | | x | x | х | X | x | Almonds, Brazil Nuts, Cashews, Chestnuts, Filbert/Hazelnuts, Macadamias, Pecans, Pine Nuts, Pistachios, Walnuts, Betel Nut, Gingko, Lotus Nuts |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Nuts | 10 | Tree nuts, roasted: Shelled, unseasoned | Shelf-Stable | x | | | | x | | x | x | х | х | х | Almonds, Brazil Nuts, Cashews, Chestnuts, Filbert/Hazelnuts, Macadamias, Pecans, Pine Nuts, Pistachios, Walnuts, Betel Nut, Gingko, Lotus Nuts |
| Nuts | 11 | Tree nuts, roasted: In- shell Seasoned | Shelf-Stable | x | | | | x | | x | x | x | x | x | Salted Macadamia Nuts, Spicy Jalapeno Pistachios, Lemon and Lime Pistachios, |
| Nuts | 12 | Tree nuts, roasted: Shelled, Seasoned | Shelf-Stable | x | | | | x | | х | х | х | x | х | Spicy Almonds, Hickory Smoked Almonds, Hot Chili Pepper Roasted Pistachios, Cinnamon and Sugar Walnuts, Cocoa Coated Almonds |
| Edible Seeds | 13 | In-Shell, Raw | Shelf-Stable | | | | | х | | | | | х | х | Pumpkin, Sunflower, Melon |
| Edible Seeds | 14 | Shelled, Raw | Shelf-Stable | | | | | Х | | | | | х | х | Pumpkin, Sunflower, Melon |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Edible Seeds | 15 | In-Shell, Roasted, Unseasoned | Shelf-Stable | x | | | | х | | х | x | | х | x | Pumpkin, Sunflower, Melon |
| Edible Seeds | 16 | Shelled/No Shell, Roasted, Unseasoned | Shelf-Stable | x | | | | x | | x | x | | X | x | Pumpkin, Sunflower, Melon, Hemp, Sesame, Flaxseed/Linseed |
| Edible Seeds | 17 | In-Shell, Roasted, Seasoned | Shelf-Stable | x | | | | x | | x | x | | x | x | Cajun Spiced Pumpkin Seeds, Salted Pumpkin Seeds, Barbecue Sunflower Seeds, Dill Sunflowers Seeds, Ranch Sunflower Seeds |
| Edible Seeds | 18 | Shelled/No Shell , Roasted, Seasoned | Shelf-Stable | x | | | | x | | x | x | | X | x | Cinnamon and Sugar Pumpkin Seeds, Tomato Italioano Pumpkin Seeds, Sea Salted Pumpkin Seeds |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Nut and Seed Butters | 19a | Butters | Shelf-Stable | x | | | | x | | x | x | x | x | X | Peanut Butter, Almond Butter, Cashew Butter, Hazelnut Butter |
| Nut and Seed Butters | 19b | Butters | Refrigerated | x | x | | | x | | x | x | X | X | x | Peanut Butter, Almond Butter, Cashew Butter, Hazelnut Butter |
| Other Nut and Seed Products | 20 | Single- component Pastes | Shelf-Stable | х | | | | х | | х | х | х | х | | Peanut Paste, Lotus Seed Paste, Sesame Seed Paste/Tahini, Pistachio Paste, Pumpkin Seed Paste/Pipian |
| Other Nut and Seed Products | 21 | Nut Flours | Shelf-Stable | | | | | Х | | X | х | х | х | | Coconut Flour, Almond Flour, Pistachio Flour, Pumpkin Seed Flour |

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|-----------------------------------|----|---------------------|-----------------------|--|---|---|---|--|--|---|--|---|-------|--------------------------------------|---|
| Other Nut and Seed Products | 22 | Coconut Products | Shelf-Stable | | | | | x | | | | | x | | Shredded Coconut, Coconut Flakes, Toasted Coconut |

Table 3M: Information that you should consider for potential process-related biological, chemical, and physical hazards for Oils and Oils Products

| Category | # | Subcategory | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|-----------------|---|------------------------------|--|---|---|---|--|--|---|--|---|-------|--------------------------------------|---|
| Oil Products | 1 | Cooking Oils | | | | | | | x | x | | | x | Corn, Soy Bean, Peanut, Safflower, Sesame, Cotton Seed, Canola, Olive, Sunflower, Blends |
| Oil Products | 2 | Margarines and other spreads | | х | х | | х | | х | х | | Х | | Oleomargarine |
| Oil Products | 3 | Shortening | | x | x | | X | | X | X | | X | | Vegetable, Imitation/Substitute Vegetable Shortening |

Table 3N: Information that you should consider for potential process-related biological, chemical, and physical hazards for Snack Foods

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|----------|---|---|-----------------------|--|---|---|---|--|--|---|--|--|-------|--------------------------------------|---|
| Baked | 1 | Bread snacks, Unseasoned | Shelf-Stable | x | | | | x | | x | x | x | x | | Breadsticks, Mini Toast, Poori, Crostini, Pretzels, Crackers |
| Baked | 2 | Bread snacks, Seasoned | Shelf-Stable | x | | | | x | | x | x | х | х | | Honey Mustard Pretzels, Garlic Bagel Chips, Cinnamon Mini Toast, Garlic and Herb Crackers |
| Baked | 3 | Bread Snacks with Filling, Unseasoned | Shelf-Stable | х | | | | х | | х | х | х | x | | Peanut Butter Pretzels, Cheese Pretzels |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Baked | 4 | Bread Snacks with Filling, Seasoned | Shelf-Stable | x | | | | X | | X | X | X | x | | Italian Cheese Pretzels, Buffalo Bleu Cheese Baked Snacks, Pepperoni Pizza Baked Snacks, Salsa Tortilla Baked Snacks |
| Baked | 5 | Grain snacks Unseasoned | Shelf-Stable | x | | | | x | | x | x | х | x | | Puffed Rice Snacks, Wheat Crackers, Rice Crackers, Whole Grain Crackers |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Baked | 6 | Grain Snacks Seasoned | Shelf-Stable | x | | | | x | | x | x | x | x | | Cheddar Cheese Rice Cakes, Caramel Corn Cakes |
| Fried | 7 | Chips, Puffs, Crisps, Unseasoned | Shelf-Stable | x | | | | х | | х | х | х | x | | Potato Chips, Corn Chips, Cheese Puffs, Lentil Chips, Sweet Potato Chips, Mixed Root Vegetable Crisps, Tortilla Chips, Corn Chips, Cheese Curls |

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|----------|----|--------------------------------------|-----------------------|--|---|---|---|--|--|---|--|---|-------|--------------------------------------|--|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect Iabel | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Fried | 8 | Chips, Puffs, Crisps, Seasoned | Shelf-Stable | х | | | | х | | x | х | х | X | | Sour Cream and Onion Potato Chips, Barbecue Potato Chips, Sriracha Tortilla Chips |
| Fried | 9 | Bread snacks Unseasoned | Shelf-Stable | x | | | | х | | X | X | х | x | | Bagel Chips, Pita Chips |
| Fried | 10 | Bread snacks Seasoned | Shelf-Stable | х | | | | х | | x | х | х | x | | Garlic Pita Crisps, Everything Bagel Chips |
| Fried | 11 | Dehydrated Fruit snacks | Shelf-Stable | x | | | | x | | x | x | х | X | | Plantain Chips, Banana Chips, Durian Chips, Jackfruit Chips, Apple Chips, Pineapple Chips |

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|----------|----|----------------------------|-----------------------|--|---|---|---|--|--|---|--|---|-------|--------------------------------------|---|
| Fried | 12 | Grain Snacks Unseasoned | Shelf-Stable | x | | | | х | | X | x | х | x | | Barley Grain Snack, Millet Grain Snack, Rice Grain Snacks, Multigrain Chips, Popped Popcorn |
| Fried | 13 | Grain Snacks Seasoned | Shelf-Stable | x | | | | х | | х | х | х | x | | White Cheddar Popcorn, Harvest Cheddar Multigrain Chips, French Onion Multi- Grain Chips |

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|-----------------|---------|------------------------------|-----------------------|--|---|---|---|--|--|---|--|---|-------|--------------------------------------|--|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Cold Pressed | 14 | Snack Food Bars | Shelf-Stable | | | | | х | | x | х | х | X | | Granola Bars, Cranberry Almond Bars, Fruit and Nut Bars, Coated Bars |
| Other | 15 | Snack Blends | Shelf-Stable | | | | | x | | x | x | х | X | | Trail mix; Ethnic Mexican Wheat Snack, Yogurt Covered Raisins, Coated Nuts |
| Other | 16 a | Pudding and gelatin products | Shelf-Stable | х | | | х | | x | x | x | х | х | | Flavored Gelatin Snacks, Chocolate Pudding, Tapioca Pudding, Vanilla Pudding |

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| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cr contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Other | 16 b | Pudding and gelatin products | Refrigerated | | X | X | x | | x | X | X | х | x | | Flavored Gelatin Snacks, Chocolate Pudding, Tapioca Pudding, Vanilla Pudding |
| Other | 17 | Non-Dairy Frozen Desserts | Frozen | | | | | x | | x | х | х | x | | Ice Pops, Fruit Pops, Soy Milk Frozen Desserts, Sorbet |

Table 30: Information that you should consider for potential process-related biological, chemical, and physical hazards for Soups and Sauces

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|------------------------------|---|----------------------|-----------------------|--|---|---|---|--|--|--|--------------------------------------|--|-------|--------------------------------------|---|
| Soups, Sauces, Gravies | 1 | Dry Mixes, Powder | Shelf-stable | X | | | | x | | х | x | х | x | X | Noodle Soup, French Onion Soup, Bouillon Cubes, Bullion Powder, Brown Soup Base, Hollandaise Sauce, Turkey Gravy, Béarnaise Sauce, Beef Gravy |
| Soups, Sauces, Gravies | 2 | Base, paste | Shelf-Stable | x | | х | | х | | х | х | х | x | | Chicken Base, Beef Base, Vegetable Base, Seafood Base, Turkey Base |

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|------------------------------|----|--|-----------------------|--|---|---|---|--|--|--|--------------------------------------|--|-------|--------------------------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Soups, Sauces, Gravies | 3a | Ready-to-Eat (RTE), Full Strength Liquid | Refrigerated | x | x | | x | x | x | x | x | x | x | x | Beef-based Soup, Stew, Chili, Chicken Soup, French Onion Soup, Mushroom Soup, Turkey Soup, Potato Soup, Chicken Broth, Consommé, Peanut Sauce, Stir- Fry Sauce, Black Bean Sauce, Chili Sauce, Tandoori Sauce, Tomato Sauce, Broccoli and Cheese Soup, Tortilla Soup, Vegetarian Vegetable Soup, Tartar Sauce, Barbecue Sauce |

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|------------------------------|----|--|-----------------------|--|---|---|---|--|--|--|--------------------------------------|--|-------|--------------------------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Soups, Sauces, Gravies | 3b | Ready-to-Eat (RTE), Full Strength Liquid | Frozen | x | X | | | X | | x | x | X | x | | Beef-based Soup, Stew, Chili, Chicken Soup, French Onion Soup, Mushroom Soup, Turkey Soup, Potato Soup, Chicken Broth, Consommé, Peanut Sauce, Stir- Fry Sauce, Black Bean Sauce, Chili Sauce, Tandoori Sauce, Tomato Sauce, Broccoli and Cheese Soup, Tortilla Soup, Vegetarian Vegetable Soup, Tartar Sauce, Barbecue Sauce |

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|------------------------------|------------|--|-----------------------|--|---|---|---|--|--|--|--------------------------------------|--|-------|--------------------------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Soups, Sauces, Gravies | 4 a | Condensed (Concentrated), Liquid | Refrigerated | X | x | x | X | x | x | x | x | X | x | | Beef-based Soup, Stew, Chili, Chicken Soup, French Onion Soup, Mushroom Soup, Turkey Soup, Potato Soup, Chicken Broth, Consommé, Peanut Sauce, Stir- Fry Sauce, Black Bean Sauce, Chili Sauce, Tandoori Sauce, Tomato Sauce, Broccoli and Cheese Soup, Tortilla Soup, Vegetarian Vegetable Soup, Tartar Sauce, Barbecue Sauce |

| | | | | | - | Jiuje 110 | ı jor impi | Cilicin | ation | | | | | | |
|------------------------------|----|--|-----------------------|--|---|---|---|--|--|--|--------------------------------------|--|-------|--------------------------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross-contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Soups, Sauces, Gravies | 4b | Condensed (Concentrated), Liquid | Frozen | x | X | x | | x | | x | х | x | x | | Beef-based Soup, Stew, Chili, Chicken Soup, French Onion Soup, Mushroom Soup, Turkey Soup, Potato Soup, Chicken Broth, Consommé, Peanut Sauce, Stir- Fry Sauce, Black Bean Sauce, Chili Sauce, Tandoori Sauce, Tomato Sauce, Broccoli and Cheese Soup, Tortilla Soup, Vegetarian Vegetable Soup, Tartar Sauce, Barbecue Sauce |

Table 3P: Information that you should consider for potential process-related biological, chemical, and physical hazards for Spices and Herbs

| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|---------------------------------------|---|-----------------------------|-----------------------|--|---|---|---|--|--|---|--|---|-------|--------------------------------------|---|
| Untreated, Raw Herbs and Spices | 1 | Dried, ground or cracked | Shelf-Stable | | | | | x | | | | | x | x | Cinnamon, Turmeric, Paprika, Pepper (Black, White, Red), Cayenne Powder, Cumin, Coriander, Mustard, Fenugreek, Horseradish, Fennel Seeds, Caraway, All- spice, Nutmeg, Ginger, Garlic (Minced or Powder), Onion (Minced or Powder), Celery Seed |
| Untreated, Raw Herbs and Spices | 2 | Dried, whole | Shelf-Stable | | | | | x | | | | | x | x | Cinnamon, Cardamom, Fenugreek, Cloves, Nutmeg, Cumin, Anise, fennel Seeds, Caraway, Chili Peppers, Saffron, Peppercorns (Black or White), Coriander, Basil, Varieties of Chili Peppers |

| | | | | | D. a. | t Hot je | n iiiipiei | riciica | | | | | | | |
|---------------------------------------|----|--------------------------------------|-----------------------|--|---|---|---|--|--|---|--|---|-------|--------------------------------------|--|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Untreated, Raw Herbs and Spices | 3 | Dried herbs | Shelf-Stable | | | | | х | | | | | x | х | Basil, Oregano, Thyme, Sage, Parsley, Bay Leaf, Dill, Rosemary, Cilantro, Mint, Kaffir Lime, Chives, Peppermint |
| Treated Herbs and Spices | 4 | Irradiated | Shelf-Stable | х | | | | X | | | | | X | X | Various, as above |
| Treated Herbs and Spices | 5 | Chemically Treated (EtOH, PPO) | Shelf-Stable | х | | | | х | | | | | х | х | Various, as above |
| Treated Herbs and Spices | 6 | Steam Pasteurization | Shelf-Stable | х | | | | х | | | | | х | х | Various, as above |
| Seasonings and Blends | 7a | Pastes | Shelf-Stable | | | х | х | х | х | х | х | х | х | х | Basil Paste, Garlic Paste, Jerk Seasoning Paste |
| Seasonings and Blends | 7b | Pastes | Refrigerated | | Х | х | х | х | х | х | х | х | х | х | Basil Paste, Garlic Paste, Jerk Seasoning Paste |
| Seasonings and Blends | 8 | Essential Oils | Shelf-Stable | | | | | | | | | | | | Basil, Cinnamon, Clove, Ginger, Lemongrass |

| | Drajt-Not for implementation | | | | | | | | | | | | | | |
|--------------------------|------------------------------|--|-----------------------|--|---|---|---|--|--|---|--|---|-------|--------------------------------------|---|
| Category | # | Subcategory | Storage Conditions | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Seasonings and Blends | 9 | Spice and seasoning mixtures, Dry Blends | Shelf-Stable | x | | | | x | | x | х | x | x | x | Taco Mix, Chili Powder, Curry Powder, Multi- Spice Mix, Adobo Seasoning, Garam Masala, Berebere, Oriental Five-Spice, Crab Snack & Dip Seasoning, Meat Coatings and Rubs, Seafood Seasonings, Scampi Seasoning, Powdered Seasonings, Popcorn Seasonings |
| Seasonings and Blends | 10 | Spice and seasoning mixtures, Liquid | Shelf-Stable | | | x | | x | | x | х | X | X | x | Fajita Seasoning Sauce, Kung Pao Seasoning Sauce |

Table 3Q: Information that you should consider for potential process-related biological, chemical, and physical hazards for Food Sweeteners (Nutritive and Non-Nutritive)

| Category | # | Subcategory | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to mis- formulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
|--|---|----------------------------|--|---|---|---|--|--|---|--|--|-------|--------------------------------------|---|
| Food Sweeteners (Nutritive and Non- Nutritive) | 1 | Sugars (Dry) | | | | | | | | | | | | Brown Sugar (Sucrose), Beet Sugar(Sucrose), Invert Sugar, Maple Sugar, Malt Sugar (Maltose), Grape Sugar (Fructose), Corn Syrup Solids, Corn Sugar (Dextrose), Cane Sugar (Sucrose), Milk Sugar, Date sugar, Palm Sugar |
| Food Sweeteners (Nutritive and Non- Nutritive) | 2 | Syrup/Molasses (Liquid) | | | | | | | | | | | | Sorghum Syrup, Maple Syrup, High Fructose Corn Syrup, Molasses, Pancake and Waffle Syrup, Simple Syrup, Liquid Sucrose, Agave Syrup, Rice Syrup |
| Food Sweeteners (Nutritive and Non- Nutritive) | 3 | Honey (Liquid) | | | | | | | | | х | х | х | Comb Honey, Strained Honey, Whipped Honey, Molasses |

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|--|---|---|--|---|---|---|--|--|---|--|---|-------|--------------------------------------|---|
| Category | # | Subcategory | Bacterial pathogen survival of a lethal treatment | Bacterial growth and/or toxin formation due to lack of time/temperature control | Bacterial growth and/or toxin formation due to poor formulation control | Bacterial growth and/or toxin formation due to reduced oxygen packaging | Recontamination with environmental pathogens | Recontamination due to lack of container integrity | Undeclared allergens - Incorrect label | Undeclared allergens - cross- contact | Chemical hazards due to misformulation (e.g. sulfites, yellow #5) | Metal | Glass (when product packed in glass) | Example Products |
| Food Sweeteners (Nutritive and Non- Nutritive) | 4 | Imitation Syrup/Molasses (Liquid) | | | х | | | | | | | х | х | Imitation Maple Syrup, Imitation Honey |
| Food Sweeteners (Nutritive and Non- Nutritive) | 5 | Food Sweeteners (Nutr) N.E.C. | | | | | | | | | | | | Nutritive Sugar Substitutes, Sorbitol, Xylitol, Isomalt, Tagatose, Maltitol, Lactitol |
| Food Sweeteners (Nutritive and Non- Nutritive) | 6 | Food Sweeteners (Non-nutr) | | | | | | | | | | | | Aspartame, Saccharin, Acesulfame K, Neotame, Stevia, Sucralose |