

Government of the People's Republic of Bangladesh

**Bangladesh Food Safety Authority Ministry of Food**

**NOTIFICATION**

**S.R.O. No. -/** In exercise of the powers conferred by section 87 of the Food Safety Act 2013 (Act No. 43 of 2013), to be read with section 13 (4), the Bangladesh Food Safety Authority, with the prior approval of the Government hereby enacted the following Regulation, as follows:-

**1. Title and commencement.-** (1) This Regulations may be called the Food Safety (Chemical Contaminants and Toxins) Regulation 2023

(2) It shall come into force (.....).

**2. Definitions.-** (1) In this Regulations, unless there is anything repugnant in the subject or context,-

- a. **“Maximum level (ML)”** means the maximum concentration of a substance to be legally permitted in food and feed.
- b. **“Act”** means the Food Safety Act, 2013 (Act No. 43 of 2013);
- c. **“Toxin”** means a poisonous substance that is a specific product of the metabolic activities of a living organism which is capable of causing different types of diseases having entered inside human body through food or any other mode;
- d. **“Schedule”** means any schedule of this regulation;
- e. **“Contaminant”** refers to contaminant as defined in section 2 (14) of the Act;
- f. **“Acceptable Daily Intake”** refers to the dosage of harmful residues in articles of food which may be consumed without any health risk in proportion to every kilogram of body weight;

(2) The words or expressions used in this Regulation but not provided with any definition or explanation shall carry the same meaning as provided under the Act.

**3. Presence of physical contaminant in article of food.-** Those physical contaminants shall not be present in articles of food which may render articles of food unsafe by way of presence therein due to production, processing, preparation, packaging, transportation, stocking of food or polluting environment or any other reason:

Provided that, limbs of insects, hairs or any such other exterior substances, such as: wood, glass, paper, sand or gravel-stone, etc shall not be considered as a contaminant until those substances are not in excess of the maximum level specified from schedule-1 to schedule-7 and those substances are not toxicated by carrying different types of contaminants or the presence of those exterior substances is not harmful for health.

**4. Controlling use of heavy metals or any other metallic substances in articles of food.-** Any person or his agent, shall not produce, import, process, stock, supply, market or sell any article of food specified in column-2 of schedule-1 which is harmful to health for containing heavy-metals or any other metallic substances as specified in column-1 in excess of the maximum level specified in column-3.

**5. Controlling use of polycyclic aromatic hydrocarbons in articles of food.-** Any person or his agent, shall not produce, import, process, stock, supply, market or sell any article of food specified in column-2 of schedule-2 which is harmful to health for the presence of organic chemical contaminant namely polycyclic aromatic hydrocarbon in excess of the maximum level specified in column-3 or in excess of quantity stipulated by any other legislation for the time being in force.



- 6. Controlling use of polychlorinated biphenyls and dioxins in articles of food.**-Any person or his agent, shall not produce, import, process, stock, supply, market or sell any article of food specified in column-2 of schedule-3 which is harmful to health for the presence of polychlorinated biphenyls and dioxins in excess of the maximum level specified in column-3 or in excess of quantity stipulated by any other legislation for the time being in force.
- 7. Controlling use of radionuclides in articles of food.**-Any person or his agent, shall not produce, import, process, stock, supply, market or sell any article of food specified in column-2 of schedule-4 which is harmful to health for containing radionuclides specified in column-1 in excess of the maximum level specified in column-3 or in excess of quantity stipulated by any other legislation for the time being in force.
- 8. Controlling use of toxins in articles of food, etc.**-Any person or his agent, shall not produce, import, process, stock, supply, market or sell any article of food specified in column-2 of schedule-5 and schedule-6 which is harmful to health for containing toxin specified in column-1 in excess of the maximum level specified in column-3.
- 9. Following international standard.**- In order to determine the maximum level of chemical contaminants and toxins with respect to the production, processing, import, marketing or sale of any article of food not mentioned within schedule-1 to schedule-7 , the limit as stipulated in the latest edition of codex CXS 193-1995 or internationally recognized standard shall have to be followed.
- 10. Propagation of advertisement.**-In order to fulfill the objective of section 41 and 42 of the Act, any person or his agent shall not propagate or sell any advertisement for the production, import, marketing or sell of any article of food containing chemical contaminant, toxin and harmful residues in excess of the maximum level specified from schedule-1 to schedule-7 which may be harmful for the buyer or may mislead public at large.
- 11. Inapplicability.**-The provisions of Pure Food Rules 1967 and Food-Safety (Contaminants, Toxins and Harmful Residues)-Regulations, 2017 concerned with this Regulation shall be rendered inapplicable as soon as this Regulation comes into effect.
- 12. Publication of English translation.**- (1) After the commencement of this Regulation, the Authority, with prior approval of the Government, if necessary, by notification in the official Gazette, may publish an Authentic Bengali text of the Regulation.
- (2) Provided that, in the event of conflict between the Bangla, the Bangla text shall prevail.

**Schedule-1**  
**Heavy Metals or any other Metallic substance**

| <b>Names of Heavy Metals and other metallic substances</b> | <b>Names of articles of food</b>   | <b>Maximum level (ppm)</b> |
|--|--|----------------------------|
| <b>1</b>   | <b>2</b>   | <b>3</b>                   |
| Arsenic  | Edible oil and fat incl. fat spreads   | 0.10                       |
|  | Salt, Food grade   | 0.50                       |
|  | Natural Mineral Water / bottled water  | 0.01                       |
|  | Rice, husked,  | 0.35                       |
|  | Rice, polished   | 0.2                        |
|  | Brewed vinegar and synthetic vinegar   | 0.1                        |
|  | Pickled cucumbers  | 1.0                        |
|  | Carbonated water(mg/L)   | 0.25                       |
|  | Dehydrated onions  | 2                          |
|  | Dried herbs and spices   | 5                          |
|  | Turmeric whole and powder  | 0.1                        |
|  | Freshwater fish  | 5.0                        |
|  | Marine fish  | 5.0                        |
|  | Crustaceans  | 5.0                        |
|  | Soft drinks intended for consumptions after dilution except carbonated water | 0.5                        |
|  | Vegetables   | 1.1                        |
|  | Hard boiled confectionery  | 1.0                        |
|  | Ice creams ice lollies   | 1.0                        |
|  | Infant formula and infant foods  | 0.1                        |
|  | Infant formula ready to use  | 0.02                       |
|  | Juice  | 0.2                        |
|  | Not specified Food items   | 1.1                        |
|  | Milk   | 0.1                        |
|  | Mollusca   | 86                         |



|         |  |       |
|---------|--|-------|
|         | Pulps and pulp products of fruits  | 0.2   |
|         | Tea  | 1.1   |
| Cadmium | Brassica vegetables  | 0.05  |
|         | Tuber vegetables   | 0.05  |
|         | Fruiting vegetables and others except Cucurbits                                | 0.05  |
|         | Fruiting vegetables, Cucurbits   | 0.05  |
|         | Leafy vegetables or leafy green  | 0.20  |
|         | Legume vegetables  | 0.10  |
|         | Potato   | 0.10  |
|         | Pulse excluding soyabean   | 0.10  |
|         | Root and tuber vegetables except potato and celery                             | 0.10  |
|         | Stalk and stem vegetables  | 0.10  |
|         | Crustaceans  | 0.5   |
|         | Fish (fresh water)   | 0.05  |
|         | Marine fish  | 0.25  |
|         | Foods not specified  | 1.5   |
|         | Infant formula and infant foods  | 0.1   |
|         | Other vegetables   | 1.5   |
|         | Turmeric whole and powder  | 0.1   |
|         | Whole, broken or flaked grain, including rice                                  |       |
|         | Cereal grains except buckwheat quinoa (excluding wheat rice and bran and germ) | 0.10  |
|         | Polished rice  | 0.40  |
|         | Wheat  | 0.20  |
|         | Salt, Food grade, sold to consumers  | 0.50  |
|         | Natural Mineral water  | 0.003 |
|         | Mollusca, Cephalopods  | 2     |



| <b>Names of Heavy Metals and other metallic substances</b> | <b>Names of articles of food</b>   | <b>Maximum Level (ppm)</b> |
|--|--|----------------------------|
| <b>1</b>   | <b>2</b>   | <b>3</b>                   |
| Chromium   | Treated sugar  | 0.02                       |
|  | All fishery products   | 12.00                      |
|  | Mineral water/ bottled water   | 0.05                       |
|  | Vegetables   | 1.0                        |
|  | Fish (freshwater)  | 1.0                        |
|  | Marine fish  | 1.0                        |
|  | Crustaceans  | 1.0                        |
|  | Vegetables   | 1.0                        |
| Lead   | Milk ( concentration factor to be applied in concentrated and dehydrated products) | 0.05                       |
|  | Secondary milk products (as consumed )   | 0.1                        |
|  | Plant oil and fat  |                            |
|  | Edible oil and fat   | 0.08                       |
|  | Olive refined oil  | 0.10                       |
|  | Olive virgin oil   | 0.10                       |
|  | Olive residual oil   | 0.10                       |
|  | Non refined vegetable oil  | 0.10                       |
|  | Fat, tallow, fish oil and fats of other animals                                    |                            |
|  | Meat of cattle and sheep   | 0.1                        |
|  | Cattle, Poultry, (Edible offal of)   | 0.1                        |
|  | Edible fat and oil   | 0.08                       |
|  | Fat spreads and blended spreads  | 0.04                       |
|  | Meat and Poultry fats  | 0.10                       |
|  | Ice lollies ice -cream, and similar frozen confections                             | 1.0                        |
|  | Margarine  | 0.1                        |
|  | Untreated fresh fruits   |                            |
|  | Fruits from subtropical region, edible peels                                       | 0.10                       |
|  | Fruits from subtropical region, nonedible peels                                    | 0.10                       |
|  | Berries and other small fruits   | 0.20                       |
|  | Citrus fruits  | 0.10                       |
|  | Olive  | 1.0                        |
|  | Pome fruits  | 0.10                       |



|  |   |             |
|--|---|-------------|
|  | Stone fruits<br>Canned fruits: Mixed fruits, grapes, mandarin orange, mango, pineapple, raspberry, strawberry and canned tropical fruit salad | 0.10<br>1.0 |
|--|---|-------------|

| Names of Heavy Metals and other metallic substances | Names of articles of food  | Maximum level (ppm) |
|---|--|---------------------|
| 1   | 2  | 3                   |
|   | Jam and jelly  | 0.4                 |
|   | Processed fruit including fruit pulp, fruit topping and coconut milk   |                     |
|   | Mango pickle   | 1.0                 |
|   | All type of sugar, sugar syrup, invert sugar and direct consumption-colored sugars with sulphated ash content exceeding 1.0% | 5.0                 |
|   | Refined white sugar  | 0.5                 |
|   | Edible molasses, caramel sugars, solid glucose, starch conversion products   | 5.0                 |
| Lead  | Untreated fresh vegetable, nut and seed  |                     |
|   | Brassica vegetables  | 0.30                |
|   | Tuber vegetables   | 0.10                |
|   | Fruit vegetables and others except Cucurbits   | 0.10                |
|   | Fruit vegetables, Cucurbits  | 0.10                |
|   | Leafy vegetables or leafy green  | 0.30                |
|   | Legume vegetables  | 0.20                |
|   | Pulse  | 0.20                |
|   | Brewed vinegars and synthetic vinegars   | 0.01                |
|   | Dehydrated vegetables except onion   | 5.0                 |
|   | Root and tuber vegetables  | 0.10                |
|   | Dehydrated onions  | 10                  |
|   | Food not specified   | 2.5                 |

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|------|--|-------------------------------------|
| Lead | Canned or bottled (pasteurized) or retort pouch vegetables: canned asparagus, carrot, green bean and wax bean, processed chickpeas, mushroom, sweet maize and tomato, canned fruit, canned fruit cocktails | 0.1                                 |
|      | Canned chestnut and chestnut puree   | 0.05                                |
|      | Processed tomato concentrates  | 1.5                                 |
|      | Whole, broken or flaked grain, including rice  |                                     |
|      | Flaked grain (except Buckwheat, canihua and quinoa, Cereal grain   | 0.2                                 |
|      | Fresh meat, poultry and game whole pieces or cut   |                                     |
|      | Edible offal of Cattles  | 0.50                                |
|      | Edible offal of poultry  | 0.50                                |
|      | Bivalve molluscs   | 1.5                                 |
|      | Canned fish, meat, edible gelatin, meat extract, hydrolyzed protein  | 5.0                                 |
|      | Meat products  | 2.5                                 |
|      | Fish (freshwater)  | 0.3                                 |
|      | Marine fish  | 0.3                                 |
|      | Crustaceans  | 0.5                                 |
|      | Hard boiled confectionery  | 2.0                                 |
|      | Baking powder  | 10                                  |
|      | Cocoa powder   | 5.0 on dry fat free substance basis |
|      | Dried Spices and herbs   | 10 on dry weight basis              |
|      | Curry powders, mixed masalas   | 10 on dry weight basis              |
|      | Carbonated water   | 10                                  |
|      | Concentrated soft drinks   | 0.5                                 |
|      | Lime lemon juice, concentrates used in manufacture of soft drinks  | 2.0                                 |
|      | Fruit and vegetable juice  | 1.0                                 |
|      | Fruit juice obtained from berries exclusively  | 0.05                                |
|      | Grape juice  | 0.04                                |



|      |   |                         |
|------|---|-------------------------|
| Lead | Tea   | 5.0 on dry matter basis |
|      | Mutton, meat of cattle                              | 0.10                    |
|      | Poultry   | 0.10                    |
|      | Salt, food grade sold to consumers                  | 2.0                     |
|      | Infant formulae (ready to use)                      | 0.01                    |
|      | Infant formula and follow-on formulae, infant foods | 0.2                     |
|      | Soft drinks (except dairy products)                 |                         |
|      | mineral water / bottled water                       | 0.01                    |

| Names of Heavy Metals and other metallic substances<br>1 | Names of articles of food<br>2   | Maximum degree of tolerance<br>(PPM) |
|--|--|--------------------------------------|
|  |  | 3                                    |
| Copper   | Any fruit and fruiting substances  | 5.0                                  |
|  | Tomato puree, paste, powder, juice and mixed juice (based on dried tomato) | 100.0                                |
|  | Tomato ketchup (based on dried tomato)                                     | 50.0                                 |
|  | Cocoa powder (fat free substance)  | 70.0                                 |
|  | Heavily boiled bakery goods made up of sugar                               | 5.0                                  |
|  | Color (based on dried mass)  | 30.0                                 |
|  | Edible salt containing iron  | 2.0                                  |
|  | Turmeric and powdered turmeric   | 5.0                                  |
|  | Brewed vinegar and synthetic vinegar                                       | 0.0                                  |
|  | Yeast and yeast containing substances                                      | 60.0                                 |
|  | Hard pectin  | 300.0                                |
|  | Infant formulae and alternatives of infant milk                            | 15.0 (But not less than 2.8 ppm)     |
|  | Beverages except concentrated and carbonated water                         | 7.0                                  |
|  | Juices of Orange, Grape, Apple, Tomato, Pineapple and Lemon                | 5.0                                  |
|  | For concentrated soft drinks   | 20.0                                 |
|  | Carbonated water   | 1.5                                  |
|  | Mineral water, expressed in mg/L   | 1.0                                  |
|  | Packaged drinking water (other than mineral water), expressed in mg/L      | 0.05                                 |
|  | Tea  | 150.0                                |



| Names of Heavy Metals and other metallic substances | Names of articles of food  | Maximum level (ppm) |
|---|--|---------------------|
| 1   | 2  | 3                   |
| Mercury   | Salt, food grade, sold to consumers  | 0.10                |
|   | mineral water /bottled water   | 0.001               |
|   | Fish (freshwater)  | 0.5                 |
|   | Marine fish  | 1.0                 |
|   | Crustaceans  | 0.5                 |
|   | Predatory fish like tuna, marlin, sword fish   | 1.0                 |
|   | Vegetables   | 1.0                 |
|   | Mushroom   | 0.5                 |
|   | Foods not specified  | 1.0                 |
| Methyl mercury (calculated as element)              | Tuna   | 1.2                 |
|   | Alfonsino  | 1.5                 |
|   | Marlin   | 1.7                 |
|   | Shark  | 1.6                 |
|   | Foods not specified  | 0.25                |
| Nickel  | All vegetable oils and fats containing Hydrogen fully and partly and ester like Banaspati, Margarine, bakery shortening, expanding fats and soybean oil containing hydrogen partly | 1.5                 |
|   | Mineral water / bottled water  | 0.02                |
|   | Vegetables   | 1.0                 |
|   | Olives   | 250.00              |
|   | Canned or bottled pasteurized fruits   |                     |
|   | Canned fruits-mixed fruits, Grapes, Mandarin Orange, Mango, Pine Apple, Raspberry, Strawberry and canned tropical fruit salads , juices of fruits (canned )                        | 250.00              |
|   | Jams, Jellies, marmalades  |                     |
|   | Jam and Jelly  | 250.00              |
|   | Mango pickle and mango chutney   | 250.00              |



|  |   |        |
|--|---|--------|
|  | Canned or bottled (pasteurized) or retort pouch vegetables: canned asparagus, carrot, green bean and wax bean, processed chick peas, mushroom, sweet maize and tomato | 250.00 |
|  | Tomato concentrates   | 250.00 |
|  | Brewed vegetable products   |        |
|  | Cucumber pickle   | 250.00 |
|  | Thigh meat cooked in tin made receptacle  | 200.00 |
|  | Thigh meat cooked in receptacle other than tin made   | 50.00  |
|  | Beef corned in tin made receptacle  | 200.00 |
|  | Beef corned in receptacle other than tin made   | 50.00  |
|  | Luncheon meat in tin made receptacle  | 200.00 |
|  | Luncheon meat in receptacle not made of tin   | 50.0   |
|  | Cooked cured chopped meat in other containers   | 50     |
|  | Fish canned products  | 200    |
|  | Cooked cured chopped meat in tin plate containers   | 250    |
|  | Composite foods (e.g. casseroles, meat pies, mincemeat)-foods that could not be placed in categories 1-15   | 50     |
|  | Canned or bottled (pasteurized) fruit juice   |        |
|  | Canned beverages  | 150.00 |
|  | Canned food other than beverages  | 250.00 |
|  | Foods not specified   | 250    |
|  | Hard boiled sugar confectionery   | 5.0    |
|  | Infant formula and infant foods   | 5.0    |
|  | Jam jellies and marmalades  | 250    |



**Schedule-2 Polycyclic Aromatic Hydrocarbons (PAH)**

| <b>Names of articles of food</b>  | <b>Maximum level (ppb or µg/kg)</b> |  |
|---|-------------------------------------|--|
|   | <b>Benzo (a) pyrene</b>             | <b>Aggregate of Benzo (a) pyrene, Benz (a) anthracene, Benzo (b) fluoranthene and Chrysene</b> |
| <b>1</b>  | <b>2</b>                            |  |
| Steamed meat and products made from it  | 2.0                                 | 12.0   |
| Steamed fish and steamed fish products, (, fresh water fishes, fish liver and products made from it and not including marine oil                      | 2.0                                 | 12.0   |
| Steamed sprats fish and canned steamed sprats fish, bivalve molluscs, (fresh, or frozen), heated meat and heated meat products sold to the consumers. | 5.0                                 | 30.0   |
| Bivalve molluscs, smoked  | 6.0                                 | 35.0   |
| Processed corny foods and foods prepared for infant and children  | 1.0                                 | 1.0  |
| Infant formulae and follow-on formulae, including infant milk and follow-on milk  | 1.0                                 | 1.0  |
| Dietary foods for special medical purposes intended specifically for infants  | 1.0                                 | 1.0  |

*[Handwritten signature]*

Schedule-3

Polychlorinated biphenyls (PCBs) and Dioxins

| Names of articles of food  | Maximum level (ppb or $\mu\text{g}/\text{kg}$ )  |   |   |
|--|--|---|---|
|  | Sum of PCB 52, fat)-PCDD/F-TEQ                   | Sum of PCB WHO-PCBs (pg/g WHO-PCB PCB-TEQ | dioxins (pg/g dioxins and 28, dioxine-like PCB 101, PCB 138, 153 and PCDD/F-PCB 180 (ng/g fat)-ICES-6 |
| 1  |  |   | 2   |
| Cattle meat and meat products  | Fresh meat, poultry and game whole pieces or cut | 2.5                                       | 4.0   |
| Poultry meat and meat products   |  | 1.75                                      | 40.0  |
| Liver of terrestrial animals (except sheep and animals belonging to the same class)                    | 0.3(wet weight basis)                            | 0.5(wet weight basis)                     | 3.0(wet weight basis)   |
| Sheep liver and products belonging to the same class   | 1.25(wet weight basis)                           | 2.0(wet weight basis)                     | 3.0(wet weight basis)   |
| Fish and fish products, including mollusks, crustaceans and echinoderms                                |  |   |   |
| Fresh fish and fish products (large pakal, large sweet water fishes, fish liver and except marine oil) | 3.5(wet weight basis)                            | 6.5(wet weight basis)                     | 75.0(wet weight basis)  |
| Muscle of fishes from open water bodies except diadromous fishes and fish product                      | 3.5(wet weight basis)                            | 6.5(wet weight basis)                     | 125.0(wet weight basis)   |
| Large pakal and products belonging to the same class   | 3.5(wet weight basis)                            | 10.0(wet weight basis)                    | 300.0(wet weight basis)   |
| Fish liver and products belonging to the same class  | -----  | 20.0(wet weight basis)                    | 200.0(wet weight basis)   |
| Poultry egg and egg products   | 2.5(fat weight basis)                            | 5.0(fat weight basis)                     | 40.0(fat weight basis)  |
| Foodstuffs intended for particular nutritional uses  |  |   |   |
| Foods prepared for infant and children   | 0.1(wet weight basis)                            | 0.2(wet weight basis)                     | 1.0(wet weight basis)   |

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**Schedule-4**

**Radionuclides or elements belonging to the same class by naturally or any other mean**

| Radioactive particle   | Names of articles of food          | Maximum level<br>(Bq/kg) |
|--|------------------------------------|--------------------------|
| $^{238}\text{Pu}$ , $^{239}\text{Pu}$ , $^{240}\text{Pu}$ , $^{241}\text{Am}$  | Infant formulae*                   | 1                        |
| $^{90}\text{Sr}$ , $^{106}\text{Ru}$ , $^{129}\text{I}$ , $^{131}\text{I}$ , $^{235}\text{U}$  | Infant formulae*                   | 100                      |
| $^{35}\text{S}^{**}$ , $^{60}\text{Co}$ , $^{89}\text{Sr}$ , $^{103}\text{Ru}$ , $^{134}\text{Cs}$ , $^{137}\text{Cs}$ , $^{134}\text{Ce}$ , $^{192}\text{Ir}$ | Infant formulae*                   | 1000                     |
| $^{3}\text{H}^{***}$ , $^{14}\text{C}$ , $^{99}\text{Tc}$  | Infant formulae*                   | 1000                     |
| $^{238}\text{Pu}$ , $^{239}\text{Pu}$ , $^{240}\text{Pu}$ , $^{241}\text{Am}$  | Other foods except infant formulae | 10                       |
| $^{90}\text{Sr}$ , $^{129}\text{I}$ , $^{131}\text{I}$ , $^{235}\text{U}$  | Other foods except infant formulae | 100                      |
| $^{35}\text{S}^{**}$ , $^{60}\text{Co}$ , $^{89}\text{Sr}$ , $^{103}\text{Ru}$ , $^{134}\text{Cs}$ , $^{137}\text{Cs}$ , $^{144}\text{Ce}$ , $^{192}\text{Ir}$ | Other foods except infant formulae | 1000                     |
| $^{3}\text{H}^{***}$ , $^{14}\text{C}$ , $^{99}\text{Tc}$  | Other foods except infant formulae | 10000                    |
| $^{134}\text{Cs}$ , $^{137}\text{Cs}$ , $^{239}\text{Pu}$ , $^{90}\text{Sr}$ , $^{131}\text{I}$  | Powder milk and milk products****  | 95                       |
| $^{134}\text{Cs}$ , $^{137}\text{Cs}$ , $^{239}\text{Pu}$ , $^{90}\text{Sr}$ , $^{131}\text{I}$  | Other foods*****                   | 50                       |

\*When directly used

\*\*Expresses limit of naturally added Sulphur

\*\*\*Expresses limit of naturally added Tritium

\*\*\*\*Powdered milk and milk products (milk powder, concentrated milk, cheese, ghee, butter, cerelac, ovaltine, maltova, horlicks, maltova, and milk products)

\*\*\*\*\*Other foods (rice, wheat, rape seed, fish, meat, pulses, onion, garlic, spices, vegetables, all types of edible oils, beverages and drinking water, and other foods)

Limit of contamination due to the presence of radioactive particles in all types of imported articles of food refers to the state without dilution, concentration or processed when reached at the port.

The Levels apply to radionuclides contained in foods destined for human consumption and traded internationally, which have been contaminated following a nuclear or radiological emergency.

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**Schedule 5**  
**Toxins (a) Mycotoxins**

| Name of contaminant                        | Names of articles of food   | Maximum level (ppb) |
|--|---|---------------------|
| 1  | 2   | 3                   |
| Aflatoxin total (Sum of B1, B2, G1 and G2) | Almond, brazil nut, hazelnut, pistachio- directly edible or used as ingredient for preparing article of food  | 10                  |
|  | Peanut, almond, brazil nut, hazelnut, pistachios, dried figs preserved or processed prior to consumption by human or used as ingredient for preparing article of food | 15                  |
|  | Pulses  | 15                  |
|  | Spices/Spice mix  | 30                  |
|  | Cereal and cereal products  | 15                  |
|  | Food product containing any of the above mentioned food articles  | 20                  |
| Aflatoxin B1                               | Arecanut or Betelnut  | 10                  |
|  | Cereal and cereal products  | 10                  |
|  | Dried figs  | 10                  |
|  | Nuts:Nuts for further processing & Ready to eat   | 10                  |
|  | Oilseeds or oil: Oilseeds for further processing & Ready to eat   | 10                  |
|  | Pulses  | 10                  |
|  | Spices/Spice Mix  | 15                  |
|  | Food product containing any of the above-mentioned food articles  | 10                  |
| Aflatoxin M1                               | Milk  | 0.5                 |



|                      |   |      |
|----------------------|---|------|
| Ochratoxin A         | Wheat, barley and rye   | 5    |
| Patulin<br>Patulin   | Apple juice   | 50   |
|                      | Apple juice used as an ingredient in other beverages                    | 50   |
| Deoxynivalenol (DON) | Cereal based foods for infant and young children                        | 200  |
|                      | Flour, meal, semolina and flakes derived from wheat, maize or barley    | 1000 |
|                      | Cereal grains (wheat, maize and barley) destined for further processing | 2000 |
| Fumonisins (B1 + B2) | Raw maize grain   | 4000 |
|                      | Maize flour and maize meal  | 2000 |

#### Schedule 6

##### b) Miscellaneous Mycotoxins and Other toxins

| Name of contaminant | Names of articles of food  | Maximum level (ppm) |
|---------------------|--|---------------------|
| 1                   | 2  | 3                   |
| Agaric acid         | Foods containing mushroom  | 100                 |
|                     | Alcoholic Beverages  | 100                 |
| Hydrocyanic acid    | Nougat, marzipan or its substitutes or similar products                    | 5                   |
|                     | Canned stone fruit   | 5                   |
|                     | confectionery  | 5                   |
|                     | Stone fruit juices   | 5                   |
|                     | Sago, Cassava flour, Tapioca flour, Manihot flour and their products       | 10                  |
|                     | Flour derived from Tapioca & Manihot and any food products using the flour | 10                  |
|                     | Any other food product not above-mentioned                                 | 5.0                 |
| Hypericin           | Any food product   | 1.0                 |
| Safrole             | Meat preparations and meat products, including poultry and game            | 10                  |
|                     | Fish preparations and fish products  | 10                  |
|                     | Soups and sauces   | 10                  |



|                       |                                 |      |
|-----------------------|---------------------------------|------|
|                       | Alcoholic beverages             | 10   |
|                       | Non alcoholic beverages         | 10   |
|                       | Food containing mace and nutmeg | 10   |
| Vinylchloride monomer | Any Food                        | 0.01 |
| Acrylonitrile         | Any Food                        | 0.02 |

Footnote: Natural toxins listed in this regulation include naturally occurring toxicants including toxic metabolites of certain microfungi that are not intentionally added to food and feed (mycotoxins). Toxins that are produced by algae and that may be accumulated in edible aquatic organisms such as shellfish (phycotoxins) are also included in this regulation. Mycotoxins and phycotoxins are both subclasses of contaminants

মোঃ আব্দুল কাইউম সরকার  
 চেয়ারম্যান  
 বাংলাদেশ নিরাপদ খাদ্য কর্তৃপক্ষ  
 খাদ্য মন্ত্রণালয়  
 সংস্থান প্রজাতন্ত্রী বাংলাদেশ সরকার