Government of the People's Republic of Bangladesh

Bangladesh Food Safety Authority Ministry of Food

DRAFT NOTIFICATION

Dated	the	

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 after 6 month from the date of their publication in the Official Gazette and Food Business Operator shall comply with all the provisions of these regultations by
- 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.

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Schedule-1 Heavy Metals or any other Metallic substance

Names of Heavy Metals and other metallic substances	Names of articles of food	Maximum level (ppm)
1	2	3
1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	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
Arsenic	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
N 0 5		
	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
Cadmium	Turmeric whole and powder	0.1
Cadimun	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



nes of Heavy Metals and other allic substances	Names of articles of food	Maximum Level (ppm)
		2
1	2	3
	Treated sugar	0.02
	All fishery products	12.00
	Mineral water/ bottled water	0.05
Chromium	Vegetables	1.0
	Fish (freshwater)	1.0
	Marine fish	1.0
	Crustaceans	1.0
	Vegetables	1.0
	Milk (concentration factor to be applied in concentrated and dehydrated products)	0.05
	Secondary milk products (as consumed)	0.1
	Plant oi	l and fat
	Edible oil and fat	0.08
	Olive refined oil	0.10
	Olive virgin oil	0.10
Lead	Olive residual oil	0.10
3	Non refined vegetable oil	0.10
×	Fat, tallow, fish oil and fats of other anim	mals
	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	
e ^S	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	0.10
2	Canned fruits: Mixed fruits, grapes, mandarin orange, mango, pineapple, raspberry, strawberry and canned tropical fruit salad	1.0

Names of Heavy Metals and other metallic substances	Names of articles of food	Maximum level (ppm)
1	2	
	Jam and jelly	3
	Processed fruit including fruit pulp, fruit	0.4
		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	0.5
	glucose, starch conversion products	5.0
Lead	Untreated fresh vegetable, nut and seed	
	Diassica vegetables	0.30
	Tuber vegetables	0.10
	Fruit vegetables and others except Cucurbits	0.10
	Fruit vegetables, Cucurbits	0.10
<u> </u>	eafy vegetables or leafy green	0.30
	egume vegetables	0.20
	Pulse	0.20
	Brewed vinegars and synthetic vinegars	0.01
R	Pehydrated vegetables except onion	5.0
	oot and tuber	0.10
<u> </u>	ehydrated onions	10
Fe	ood not specified	2.5



Canned or bottled (pasteurized) or retort pouch vegetables: canned asparagus, carrot, green bean and wax	0.1
bean, processed chickpeas, mushroom,	
sweet	
maize and tomato, canned fruit,	
canned fruit cocktails	
Canned chestnut	0.05
and chestnut puree	
Processed tomato concentrates	1.5
Whole, broken or flaked grain, including	rice
Flaked grain (except Buckwheat,	0.2
canihua and quinoa, Cereal grain	
Fresh meat, poultry and game whole piece	es or cut
Edible offal of	0.50
Cattles	
Edible offal of	0.50
poultry	
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	2.0
manufacture of soft drinks	
Fruit and vegetable juice	1.0
Fruit juice obtained from berries exclusively	0.05
Grape juice	0.04



Lead

Lead	Tea	
		5.0 on dry matter basi
	Mutton, meat of cattle	0.10
	Poultry	0.10
	Salt, food grade sold to consumers	
2	Infant formulae (ready to use)	2.0
		0.01
	Infant formula and follow-on formulae, infant foods	0.2
	Soft drinks (except dairy products)	
	mineral water / bottled water	0.01
	Fruit juice	0.00
		0.03

Names of Heavy Metals and other metallic substances	Names of articles of food	Maximum degree of tolerand	
	2		
	Any fruit and fruiting substances	3	
	nixed juice (based on dried tomate)	5.0 100.0	
	tomato) ketchup (based on dried	50.0	
	Cocoa powder (fat free substance)	70.0	
	ricavity boiled bakery goods made		
	or sugar	5.0	
	Color (based on dried mass)	30.0	
	Edible salt containing iron	2.0	
Copper	Turmeric and powdered turmeric	5.0	
+	Brewed vinegar and synthetic vinegar	0.0	
L	1 cast and yeast containing substances	60.0	
1	riaid pectin	300.0	
	Infant formulae and alternatives of	15.0 (But not less than 2.8 ppm)	
	miant milk		
	Beverages except concentrated and carbonated water	7.0	
	Juices of Orange, Grape, Apple, Fomato, Pineapple and Lemon	5.0 ,	
	or concentrated soft drinks	20.0	
P. m	Carbonated water	1.5	
	Mineral water, expressed in mg/L	1.0	
	nineral water), expressed in mo/I	0.05	
	ea	150.0	

Names of Heavy Metals and other metallic substances	Names of articles of food	Maximum level (ppm)
1	2	3
	Salt, food grade, sold to consumers	0.10
	mineral	0.001
	water /bottled water	
	Fish (freshwater)	0.5
	Marine fish	1.0
	Crustaceans	0.5
Mercury	Predatory fish like tuna, marlin, sword fish	1.0
	Vegetables	1.0
	Mushroom	0.5
	Foods not specified	1.0
	Tuna	1,2
Mathyl moreum (. l . l . l	Alfonsino	1.5
Methyl mercury (calculated as element)	Marlin	1.7
	Shark	1.6
	Foods not specified	0.25
Nickle	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
sa sa	Jams, Jellies, marmalades	
	Jam and Jelly	050.00
	Mango pickle and mango chutney	250.00
	or Francisco Chamey	250.00



Canned or bottled (pasteurized)	or 250.00
retort pouch vegetables: cann	ed
asparagus, carrot, green bean a	nd
wax bean, processed chick pea	ıs,
mushroom, sweet maize and toma	to
Tomato concentrates	250.00
Provide a LL	250.00
Brewed vegetable products	
Cucumber pickle	250.00
Thigh meat cooked in tin made	200.00
receptacle	
Thigh meat cooked in receptacl	50.00
other than tin made	50.00
Beef corned in tin made receptacle	200.00
Beef corned in receptacle other	
than tin made	50.00
CONTRACTOR STATE OF THE STATE O	
Luncheon meat in tin made	200.00
receptacle	
Luncheon meat in receptacle not	50.0
made of tin	30.0
Cooked cured chopped meat in ther	
containers	50
Fish canned products	200
Cooked cured chopped meat in tin	
plate containers	250
Company of the Compan	
Composite foods (e.g. casseroles,	50
meat pies, mincemeat)-foods that	
could not be placed in categories 1-	
15	2
Canned or bottled (pasteurized) fruit j	uice
Canned beverages	150.00
Canned food other than beverages	250.00
Foods not an air 1	
Foods not specified	250
Hard boiled sugar confectionery	
	5.0
Infant formula and infant foods	5.0
Iom iollian 1	2.0
Jam jellies and marmalades	250



Schedule-2 Polycyclic Aromatic Hydrocarbons (PAH)

Names of articles of food	Maximum level (ppb or μg/kg)		
and a second control of the control	Benzo (a) pyrene	Aggregate of Benzo (a) pyrene, Benz (a) anthracene, Benzo (b) fluoranthene and Chrysene	
1	2		
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 mollucs, 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	



Names of articles of food	ated Diphenyls (PC)	Bs) and Dioxina		
100d to 100d	ted biphenyls (PCBs) and Dioxins Maximum level (ppb or μg/kg)			
	Sum of Sum of PCB 52, fat)- PCDD/F- TEQ fat)-	Sum of PCB WHO- PCBs (pg/g WHO-PCB PCB-TEQ	diox diox PCB 153 a	ins (pg/g dioxins and 28 ine-like PCB 101 138, nd PCDD/F-PCB 180 fat)-
Frank				
Cattle meat and meat products	poultry and game whole	e nieces or		
Diver Of Terrestrial	1.75	4,0		40.0
animals belonging to the same class	0.3(wet weight	3.0		40.0
Sheep liver and products belonging to the sam	basis)	0.5(wet weight basis)		3.0(wet weight basis)
pri.	L. O. W.CIRIII	2.0(wet wei	ght	3.0(wet weight
Fresh fish and fish products (large pakal, large sweet water fishes, fish liver and	3 5/	aceans and echinod	erms	basis)
Muscle of fishes from	basis)	6.5(wet weight basis)	ght	75.0(wet weight basis)
and product	3.5(wet weight basis)	6.5(wet weig	ht	125.0(wet weight
Large pakal and products belonging to the same	3.5(wet weight	basis) 10.0(wet weig		basis)
rish liver and products belonging to the same class	basis)	basis) 20.0(wet weigh	1	300.0(wet weight basis)
oultry egg and egg products	2.5(fat weight basis)	basis)	1	200.0(wet weight basis)
Foodstuffs intend	led for particular nutrit	5.0(fat weight ba	sis)	40.0(fat weight basis)
omuren	0.1(wet weight basis)	0.2(wet weight basis)	T	1.0(wet weight

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 (Bq/kg)
238Pu, 239Pu,240Pu,241Am	Infant formulae*	1
90Sr,106Ru,129I,131I, 235U	Infant formulae*	100
35S**,60C0, 89Sr, 103Ru, 134Cs, 137Cs, 134Ce, 192Ir	Infant formulae*	1000
³ H***, ¹⁴ C, ⁹⁹ Tc	Infant formulae*	1000
238Pu, 239Pu, 240Pu, 241Am	Other foods except infant formulae	10
90 Sr , 129 I , 131 I , 235 U	Other foods except infant formulae	100
35S**,60C0,89Sr, 103Ru, 134Cs, 137Cs, 144Ce, 192Ir	Other foods except infant formulae	1000
³ H***, ¹⁴ C, ⁹⁹ Tc	Other foods except infant formulae	10000
134Cs, 137Cs, 239Pu, 90Sr,131I	Powder milk and milk products****	95
134Cs, 137Cs, 239Pu, 90Sr, 131I	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.

Schedule 5

Name of contaminant	Toxins (a) Mycotoxins Names of articles of food	Maximum level (ppb)
1	2	-
		3
	Almond, brazil nut, hazelnut, pistachio directly edible or used as ingredient for preparing article of food	10
Aflatoxin total (Sum of B1, B2 G2)	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	
	Spices/Spice mix	15
	7	30
	Cereal and cereal products	15
	Food product containing any of the above mentioned food articles	20
	Arecanut or Beteinut	10
	Cereal and cereal products	10
	Dried C	10
Aflatoxin B1	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	
Aflatoxin M1	above-mentioned food articles Milk	10
	TATIN.	0.5



Ochratoxin A	Wheat, barley and rye	5
Patulin 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
Eumonising (D1 + D2)	Raw maize grain	4000
Fumonisins (B1 + B2)	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
	Nougat, marzipan or its substitutes or similar products	5
	Canned stone fruit	5
Hydrocyanic acid	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
	Meat preparations and meat products, including poultry and game	10
Safrole	Fish preparations and fish products	10
	Soups and sauces	10



	Alcoholic beverages	
	Non alcoholic beverages	10
	Food containing mace and	10
Vinulate 1	nutrneg	10
Vinylchloride monomer	Any Food	
Acrylonitrile		0.01
	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 contaminants

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মোঃ আবুল কাইউম সরকার চেয়ারম্যান বাংলাদেশ নিরাপদ খাদ্য কর্তৃপক্ষ খাদ্য মন্ত্রণালয় কী সাংলাদেশ সরকার