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LEGAL NOTICE NO. 87 OF 2024

Food Fortification (Amendment) Regulations, 2024

Pursuant to section 71 of the Public Health Order, 1970¹, I,

SELIBE MOCHOBOROANE,

Minister responsible for health, make the following regulations -

Citation and Commencement

1. These regulations may be cited as the Food Fortification (Amendment) Regulations, 2024 and shall come into operation on the date of publication in the Gazette.

Insertion of new Schedule

2. The Food Fortification Regulations, 2020², are amended in regulation 6 by -

“inserting the attached Schedule I of the Food Fortification of Foodstuffs”.

DATED:

**SELIBE MOCHOBOROANE
MINISTER OF HEALTH**

NOTE

1. Order No. 12 of 1970
2. L.N. No. 8 of 2020

SCHEDULES

First schedule: Requirements for fortified foods and premixes (Regulation 6)

Table 1: Micronutrient content in fortified wheat flour

NUTRIENT	Fortificant compound	Selected		Production Parameters		Regulatory Parameters	
		FL ¹	mFL ²	Aver ³	MFL	LmL	MTL ⁵
		(mg/kg)	(1)	age (2)	(3)	(4)	(5)
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Vit. Aa	Retinyl Palmitate-250,000 IU/g (dry)	1.5	0.8	1.5	2.2	0.7	2.2
Vit. Db	D-3 100,000 IU/g (dry)	0.000	0.000	0.000	0.000	0.000	0.000
Vit. B-1	Thiamin mononitrate	1.9	1.5	2.7	3.9	1.3	3.9
Vit. B-2	Riboflavin	4.0	2.5	4.6	6.7	2.3	6.7
Vit. B-3 (Niacin)	Niacin-amide	35.0	24.8	45.0	65.2	22.4	65.2
Vit. B-6	Pyridoxine hydrochloride	3.5	2.2	3.9	5.6	1.8	5.6
Vit. B-9 (Folate)	Folic Acid	1.4	0.9	1.7	2.5	0.8	2.5
Vit. B-12	Vit. B-12 0.1% WS	0.01	0.006	0.010	0.014	0.005	0.014

Iron	Ferrous fumarate	45	37	54	71	37	71
Iron	NaFeEDTA	0	6	9	12	6	12
Zinc	Zinc oxide	40	33	48	63	33	63

Table 2: Specification for fortification premix for wheat flour

NUTRIENT	Fortificant compound	Selected F L (mg/kg)	Amount of Fortificant (mg/kg)	[Fortificant] (g/kg premix)	[Nutrient] (g/kg premix)
Vit. Aa	Retinyl Palmitate- 250,000 IU/ g (dry)	1.5	20.0	43.5	3
Vit. Db	D-3 100,000 IU/g (dry)	0.000	0.0	0.0	0.00
Vit. B-1	Thiamin mononitrate	1.9	2.3	5.1	4
Vit. B-2	Riboflavin	4.0	4.0	8.7	9
Vit. B-3 (Niacin)	Niacinamide	35.0	35.4	76.9	76
Vit. B-6	Pyridoxine hydrochloride	3.5	4.3	9.3	8
Vit. B-9 (Folate)	Folic Acid	1.4	1.6	3.4	3
Vit. B-12	Vit. B-12 0.1% WS	0.01	10.0	21.7	0.02

Iron	Ferrous fumarate	45	140.6	305.7	98
Zinc	Zinc oxide	40	50.0	108.7	87
Calcium	Calcium carbonate				
Iodine	Potassium iodate	0.0	0.0	0.0	0.0
	Filling material (at least 25%)		67.0	417.1	

TOTAL335.2 **1000.0**

Table 3: Micronutrient content in fortified maize flour

NUTRIENT	Fortificant compound	Selected FL (mg/kg)	Production Parameters			Regulatory Parameters	
			mFL (1)	Aver age (2)	MFL (3)	LmL (4)	MTL (5)
			(mg/ kg)	(mg/ kg)	(mg/ kg)	(mg/ kg)	(mg/ kg)
Vit. Aa	Retinyl Palmitate- 250,000 IU/g (dry)	1.0	0.6	1.0	1.4	0.5	1.4
Vit. Db	D-3 100,000 IU/g (dry)	0.000	0.000	0.000	0.000	0.000	0.000
Vit. B-1	Thiamin mononitrate	2.2	2.3	4.2	6.1	2.0	6.1
Vit. B-2	Riboflavin	1.7	1.5	2.7	3.9	1.3	3.9
Vit. B-3	(Niacin) Niacinamide	25.0	16.6	30.0	43.4	14.9	43.4
Vit. B-6	Pyridoxine hydrochloride	3.1	4.5	8.1	11.7	3.8	11.7

Vit. B-9 Folic Acid	(Folate)	1.0	0.7	1.2	1.7	0.6	1.7
Vit. B-12	Vit. B-12 0. 1% WS	0.008	0.004	0.008	0.012	0.004	0.012
Iron	NaFeEDTA	15	18	26	34	18	34
Zinc	Zinc oxide	30	27	39	51	27	51

Table 4: Specification for fortification premix for maize flour

NUTRIENT	Fortificant compound	Selected FL (mg/kg)	Amount of Fortificant (mg/kg)	[Fortificant] (g/kg premix)	[Nutrient] (g/kg premix)
Vit. Aa	Retinyl Palmitate- 250,000 IU/ g (dry)	1.0	13.3	29.6	2
Vit. Db	D-3 100,000 IU/g (dry)	0.000	0.000	0.0	0.00
Vit. B-1	Thiamin mononitrate	2.2	2.7	6.0	5
Vit. B-2	Riboflavin	1.7	1.7	3.8	4
Vit. B-3 (Niacin)	Niacinamide	25.0	25.3	56.0	55
Vit. B-6	Pyridoxine hydrochloride	3.1	3.8	8.4	7
Vit. B-9 (Folate)	Folic Acid	1.0	1.1	2.5	2

Vit. B-12	Vit. B-12 0.1% WS	0.008	8.0	17.7	0.02
Iron	NaFeEDTA	15	115.4	255.8	33
Iron	Ferrous fumarate	45	140.6	305.7	98
Zinc	Zinc oxide	30	37.5	83.1	67
Iodine	Potassium iodate	0.0	0.0	0.0	0.0
	Filling material (at least 25%)		52.2	537.1	
TOTAL			261.0	1000.0	

Table 5: Vitamin A content in fortified sugar

NUTRIENT	Fortificant compound	Selected		Production Parameters		Regulatory Parameters	
		FL (mg/kg)	mFL (1)	Aver age (2) (mg/kg)	MFL (3) (mg/kg)	LmL (4) (mg/kg)	MTL (5) (mg/kg)
Vit. Aa	Retinyl Palmitate-250,000 IU/g (Water disp.)	10.0	5.5	10.0	14.5	3.9	14.5

Table 6: Specification for fortification premix for sugar

NUTRIENT	Fortificant compound	Selected FL (mg/kg)	Amount of Fortificant (mg/kg)	[Nutrient] (g/kg premix)
Vit. Aa	Retinyl Palmitate-250,000 IU/g (Water disp.)	10.0	133.3	10

Table 7: Vitamin A content in fortified Oil

NUTRIENT	Fortificant compound	Production Parameters			Regulatory Parameters		
		FL (mg/kg)	mFL (1) (mg/ kg)	Aver age (2) (mg/ kg)	MFL (3) (mg/ kg)	LmL (4) (mg/ kg)	MTL (5) (mg/ kg)
Vit. Aa	Retinyl Palmitate- 1.7 m IU/g (oil)	20.0	17.4	20.0	22.6	12.2	22.6

Table 8: Specification for fortification premix for Oil

NUTRIENT	Fortificant compound	Selected Level	Amount of Fortificant
		(mg/kg)	(mg/kg)
Vit. Aa	Retinyl Palmitate- 1.7m IU/ g (oil)	20.0	39.2

1. FL: Fortification level (target addition)
2. mFL: minimum Fortification Level (accepted minimum at production level or at import)
3. MFL: maximum Fortification Level (accepted maximum at production level or at import)
4. LmL: Legal minimum Level (accepted minimum at retail level)
5. MTL: Legal maximum Level (accepted maximum at retail level)