

**Food Fortification Legislation: Africa**

State or IO	Type of Legislation	Product concerned	Micronutrient							
			Vit A (IU/kg)	Vit D (IU/kg)	Thiamine/ Vit B1 (mg/kg)	Riboflavin/ Vit B2 (mg/kg)	Niacin/ Vit B3 (mg/kg)	Folate/ Vit B9 (mg/kg)	Iron (mg/kg)	Others (levels)
<b>Botswana</b>	Food Control Act (No. 11 of 1993)	General								
<b>ECOWAS</b>	2006 resolution by the Assembly of Health Ministers									
<b>Ghana</b>	Food and Drugs Law, 1992	General								
	Standard FDGS 811 2006	Strong wheat flour	2 mg/kg = 3640 IU  (palmitate containing)		8.4	4.5	59	2.08	58.5	Vit B12: 0.01mg; Zinc: 28.3mg NO potassium promate
<b>Guinea</b>	Arrêté A/2006/4600/MSP/MCI RME/MEF/SGG du 6 septembre 2006	Wheat flour			4.05	1.6	28.8	1.35	54	
<b>Kenya</b>	The Food, Drugs and Chemical substances Act and Regulation	General								
<b>Malawi</b>	MS34: 2002 (draft)	Maize flour	2830		0.894	1.05	12.2	2.063	9.4	Vit B12: 0.016 mg; Zinc: 7.5mg Vit B6: 1.3mg
	MBS 202:1989. Amendment 1 august 2001	Sugar	50000							
<b>Morocco</b>	Décret n° 2-04-52 du 29 chaoual 1426 (2 décembre 2005)	Flour								
	Arrêté conjoint n° 2232-06 du 23 ramadan 1427 (16 octobre 2006)	Flour (using a specific premix)			4.5	2.79	36.18	1.53	45	

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<b>Nigeria</b>	Food and Drugs Decree 1974 no. 35	Flour			4.5-5.5	2.7-3.3	35.5-44.4		28.9-36.7	
	Standard for Vitamin A (fortificant) premix NIS 475:2004	For wheat flour, maize flour, semolina	30000 (palmitate)		31.55	14.8			116.12	Nicotinamide 198 g/kg
		Margarine	20000 (palmitate 1.0millionIU/g)	100,000 IU/g						
		Vegetable oils	20000							
		Sugar	25000 (type 250SN/CWS or 250-CWD containing 250000IU/g and vitamin D3100000IU/g or vit A pal. 1.0millionIU/g or vit A pal. 1.7millionIU/g in a liquid form stabilized with vitE or a BHT/BHA mixture)							
<b>Seychelles</b>	Food Act (Food Additives Regulation) (1 <sup>st</sup> March, 1992)	General								

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South Africa	Foodstuffs, Cosmetics and Disinfectants Act 54 of 1972, Art. 15	General								
	Regulations relating to the fortification of foodstuffs	Maize foodstuffs	6400		3.85	1.85	28.50	1.50	37	Zinc: 18.5 mg/kg; Vit B6: 3.20 mg/kg
		Maize meal, micronutrient mix, min. 200 g per ton	6944		13.93 (g/kg)	8.5 (g/kg)	125 (g/kg)	7.15 (g/kg)	178.57 (g/kg)	Zinc: 93.4 g/kg; Vit B6: 16.24 g/kg
		Wheat foodstuffs	5400		3.6	2	31	1.5	43	Zinc: 20 mg/kg; Vit B6: 3.20 mg/kg
		Wheaten flours, micronutrient mix, min. 200 g per ton	5952		12.34 (g/kg)	8.9 (g/kg)	118.4 (g/kg)	7.15 (g/kg)	178.57 (g/kg)	Zinc: 93.4 g/kg; Vit B6: 19.32 g/kg
		Unsifted maize meal	6400		3.85	1.85	28.50	1.5	14	Zinc: 18.5 mg/kg; Vit B6: 3.2 mg/kg
		Unsifted maize meal, micronutrient mix, min. 200 g. per ton	6944		13.93 (g/kg)	8.5 (g/kg)	125 (g/kg)	7.15 (g/kg)	89.28 (g/kg)	Zinc: 93.4 g/kg; Vit B6: 19.32 g/kg
	Regulations relating to foodstuffs for infants, young children and children									
Sudan	Law No. 569 of 1973 on food control	General								
Uganda	The Food and Drugs (Food Fortification) Regulations, 2005	General								
	Uganda Standard 511	Edible Fats and Oils	2-4.5 mg/100 g = 36000-82000 IU							
	Uganda Standard 561	Whole wheat flour	0.1-0.4 mg/100 g = 1819-7272 IU		0.6 mg/100 g	0.3 mg/100 g	6 mg/100 g	0.1-0.5 mg/100 g	6-10 mg/100 g	Vit B6: 0.3 mg/100g; Vit B12: 0.0007 mg/100 g; Zinc: 4-6 mg/100 g

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		Whole wheat flour at the moment of production	0.2-0.4 mg/100 g = 3638-7272 IU		0.6-2 mg/100 g	0.3-1.1 mg/100 g	7-11 mg/100 g	0.2-0.4 mg/100 g	5.5-9.5 mg/100 g	Vit B6: 0.4-1 mg/100 g; Vit B12: 0.0008-0.0023 mg/100 g; Zinc: 4-6 mg/100 g
			Vit A (IU/kg)	Vit D (IU/kg)	Thiamine/ Vit B1 (mg/kg)	Riboflavin/ Vit B2 (mg/kg)	Niacin/ Vit B3 (mg/kg)	Folate/ Vit B9 (mg/kg)	Iron (mg/kg)	Others (levels)
		White wheat flour	0.1-0.4 mg/100 g = 1819-7272 IU		0.4 mg/100 g	0.2 mg/100 g	4 mg/100 g	0.1 mg/100g	4-6 mg/100 g	Vit B6: 0.3 mg/100g; Vit B12: 0.0007 mg/100 g; Zinc: 3-5 mg/100 g
		White wheat flour, at the moment of production	0.2-0.4 mg/100 g = 3638-7272 IU		0.4-1.4 mg/100 g	0.3-0.7 mg/100 g	5-7 mg/100 g	0.2-0.4 mg/100 g	3.8-6.2 mg/100 g	Vit B6: 0.3-0.9 mg/100 g; Vit B12: 0.0008-0.0023 mg/100 g; Zinc: 3-5 mg/100 g
		Wheat flour, fortification mix	8330		23 g/kg	13 g/kg	125 g/kg	6.3 g/kg	100 g/kg	Vit B6: 15 g/kg; Vit B12: 0.04 g/kg; Zinc: 75 g/kg
	Uganda Standard 510	Fortified sugar	1-3 mg/100 g = 18200-54600 IU							
<b>Zambia</b>	Chapter 303, The Food and Drugs Act	General								
	Statutory instrument (S. I.) No.155 of 1998	For sugar (refined, white, brown, yellow and golden)	> 33300							
	Statutory Instrument (S. I.) No. 90 of 2001	Enriched maize meal	5661		2.4 <sup>2</sup> (3.05)	2 <sup>2</sup> (2.6)	22.4 <sup>2</sup> (0.4)	2,4	12	Vit B6: 2 mg/kg; Zinc : 12 mg/kg
		Enriched flour			(not specified)	3.3-4.5			28.9–36.7	Vit B3: 35.5 <sup>2</sup> (25.5 mg) – 44.4 mg Vit B2: 3.3 mg – 4.5 mg
	Statutory Instrument (S. I.) No. 69 of 2006									
	IPPA (Investment Promotion and Protection Agreement), March 30th 2007									