

## Food Fortification Legislation: Africa

Country	Mandate or Standards	Product concerned	Micronutrient							
			Vit A (IU/kg)	Vit D (IU/kg)	Thiamine (mg/kg)	Riboflavin (mg/kg)	Niacin (mg/kg)	Folate (mg/kg)	Iron (mg/kg)	Others (levels/kg)
Algeria	Decret executive no.90-40 du 30 janvier 1990									
Botswana	The Food Act 1985									
Burkina Fasso	Legislation foreseen	Cottonseed oil	Vit A							
Cameroon	Arrete No. 0133 du 20 Mai 1991									
Cote d'Ivoire	Legislation foreseen	Cottonseed oil and palm	Vit A							
Ghana	Standard FDGS 811 2006 (tolerance de +/- 10%)	Strong wheat flour	2.0 mg/kg (palmitate containing)		8.4mg	4.5mg	59.0	2.08	58.5	B12: 0.01mg ;zinc: 28.3mg NO potassium promate
	Food and Drug Law 1992									
	Food and Drugs (amendment) Act 1996									
	Legislation foreseen	Vegetable oil	Vit A							
Kenya	The Food, Drugs and Chemical substances Act									
Mali	Legislation foreseen	Cottonseed oil						Folic acid	iron	
Malawi	MS34: 2002 (draft)	Maize flour	2830		0.894	1.05	12.2	2.063	9.4	B12: 0.016mg ; zinc: 7.5mg pyrodoxine: 1.3mg
	MBS 202:1989. Amendment 1 august 2001	Sugar	50000							

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Morocco	Legislation foreseen	Wheat flour								Vit B
		Vegetable oil	Vit A	Vit D						
Nigeria	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 198g/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)							

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South Africa	Act 54, 1972, April 2003	Maize flour (super)	6250		3.09	1.79	29.70	1.89	37.35	zinc: 18.90mg ; pyridoxine: 3.89mg
		Maize flour (special)	6250		3.86	1.88	31.86	1.90	40.14	zinc: 22.55mg ; pyridoxine: 4.25mg
		Maize flour ( sifted)	6250		4.76	1.97	34.65	1.92	44.28	zinc: 26.60mg ; pyridoxine : 4.79mg
		Maize flour (unsifted)	6250		5.57	2.06	38.25	1.94	50.40	zinc: 30.20mg ; pyridoxine: 5.42mg
		Wheat flour (white)	5360		3.91	2.05	38.42	1.36	43.65	zinc: 20.70mg ; pyridoxine: 2.82mg
		Wheat flour (brown)	4712		3.79	1.95	54.76	1.24	47.97	zinc: 26.73mg ; pyridoxine: 3:07mg
		Wheat bread ( white)	2664		2.49	1.41	27.91	0.74	32.26	zinc: 15.30mg ; pyridoxine: 2.13mg
		Wheat bread (brown)	2331		2.54	1.39	41.59	0.74	34.69	zinc: 20.07mg ; pyridoxine: 2.67mg
Uganda	Food and Drugs (contrl of quality and iodade Salt) regulations 1997									
Uzbekistan	Legislation foreseen	Wheat flour							Vit B	
Zambia	Statutory instrument No.155 of 1998	For sugar (refined, white, brown, yellow and golden)	> 33300							
	Statutory Instrument No. 90 of 2001	Enriched maize meal	5661 (as retinol)		2.4 <sup>2</sup> (3.05)	2.0 <sup>2</sup> (2.6)	22.4 <sup>2</sup> (0.4)	2,4	12	B6: 2.0mg/kg ; zinc : 12mg/kg pyridoxine: 0.4mg
		Enriched flour			not specified	3.3-4.5			28.9– 36.7	B3: 35.5 <sup>2</sup> (25.5 mg) – 44.4 mg B2: 3.3 mg – 4.5 mg

**main source: "summary and voluntary Staple Food Fortification in Developing Countries" prepared by MOST/USIAD (28/04/00)**

[www.fao.org/docrep/W2840E/w2840Ee0e.htm](http://www.fao.org/docrep/W2840E/w2840Ee0e.htm)