

International Commodity Specifications and Contaminants Update

USDA Industry Day

March 3, 2022



Commodity Requirements Documents (Specifications)

D. Processing

I. Formula

a. **Super Cereal Plus** is manufactured according to the following formula

Table 1: Super Cereal Plus- formula

No.	Ingredients	Percentage (by weight)
1	Corn (white or yellow)	58.17
2	De-hulled soybeans	20.00
3	Dried skim milk powder ¹	8.00
4	Sugar	9.00
5	Refined soy bean oil	3.00
6	Vitamin/Mineral Premix	0.40
7	Tri-Calcium Phosphate	1.16
8	Potassium chloride	0.27



- Formulation requirements
- Nutritional Composition
- Ingredient requirements
- Quality assurance
- Microbiological and food safety requirements
- Shelf-life expectations
- Preparation and use details
- Packaging requirements
- Branding and markings

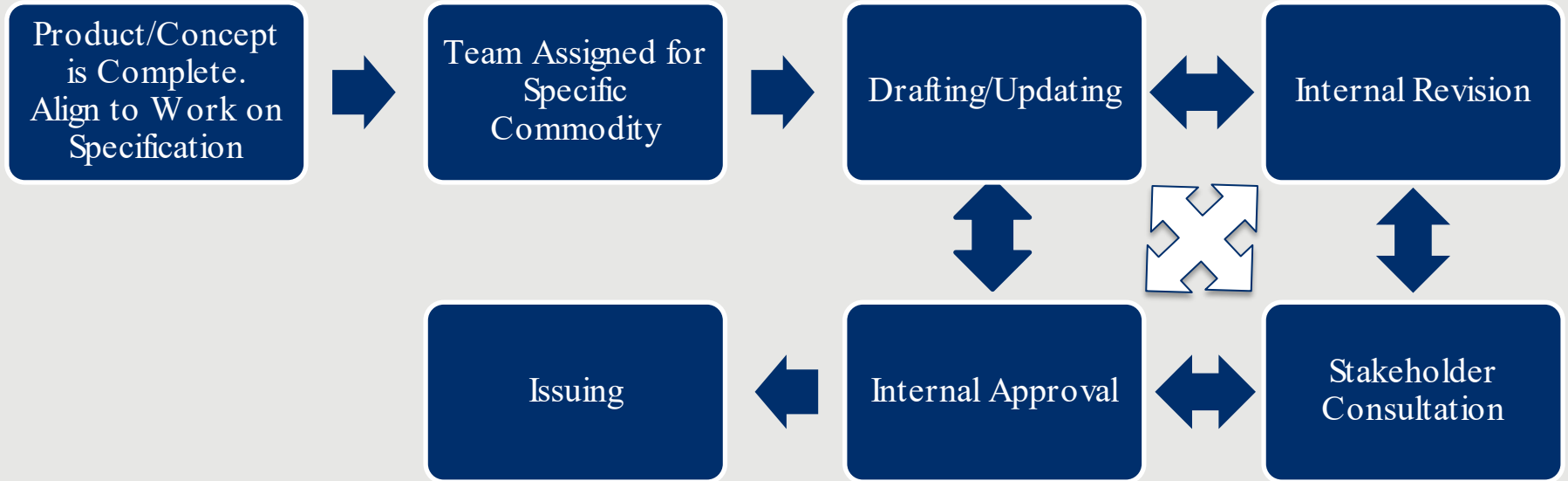
4. Micronutrient

Super Cereal Plus must be fortified to provide the following target micronutrient supplement per 100g of finished product— Premixes should be adjusted to account for intrinsic properties of the components

Table 2: Micronutrient profile of finished product and chemical form per 100 grams

Vitamin/Mineral	Target ³	Chemical forms ⁴
Vitamin A RE	3466 IU	Dry Vitamin A Palmitate 250 SN
Vitamin D ³	441.6 IU(11 µg)	Dry Vitamin D3 100 SD/S

International Commodity Specification Process Overview



Specifications Recent Focus

- Auditing
- Labeling and markings
- Packaging quality and functionality
 - Performance-based packaging specifications considering the supply chain

Specifications Future Focus

Product

Climate and contaminants

Nutrient/premix alignment with partner organizations

Packaging

Sustainability

Program Need

Reusability

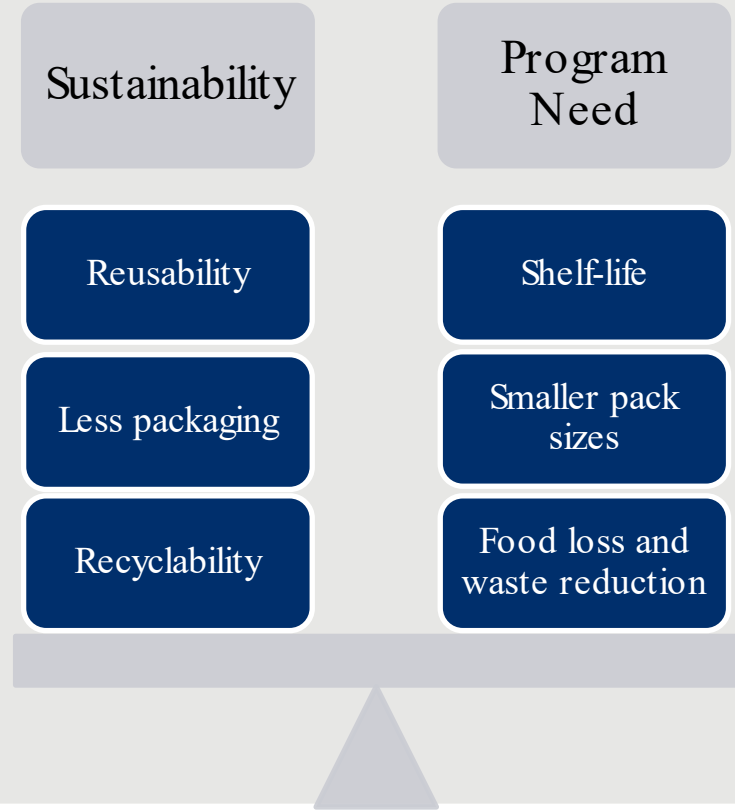
Shelf-life

Less packaging

Smaller pack sizes

Recyclability

Food loss and waste reduction



Contaminants Working Group

Interagency Working Group on Specialized Nutritious Food Products sub-team working to address emerging contaminants in the food assistance supply chain

- First project: benchmarking assessment:
 - Understand current contaminants landscape, including U.S. suppliers
 - Identify gaps for further work
- Initial Focus Contaminants:
 - Toxic esters - MCPDE and GE
 - Mycotoxins
 - Tropane alkaloids
 - Heavy metals
- Involvement:
 - World Food Program (WFP)
 - USDA
 - USAID
 - Doctors without Borders (MSF)
 - UNICEF
- Upcoming work: Risk assessment to identify limits for 3-MCPD and GE in Lipid Nutrient Supplement (LNS) products

Second Contaminants Testing 2022

Product	Tropane Alkaloids	Mycotoxins Aflatoxins, Fumonisin, Zearalenone, DON, HT-2, T-2, Ochratoxin	Heavy Metals Arsenic, Cadmium, Lead, Mercury	Glycidyl Esters/MCP DE	Halogenated Solvents, Soaps, Iodine Value
Soy-Fortified Cornmeal <i>1 supplier</i>				NA	NA
Yellow Split Peas/Whole Green Peas <i>2 suppliers each</i>	In progress	In progress	In progress	NA	NA
Sorghum <i>1 supplier</i>	NA	In progress	In progress	NA	NA
Milled Rice/Fortified Rice <i>3 suppliers total</i>	NA	Partial completion of testing	Partial completion of testing	NA	NA
Sunflower/Soy bean Oil <i>4 suppliers</i>	NA	NA			