PRODUCT: Diammonium Phosphate, Anhydrous (DAP) Granular

GRADE: FCC, Food

CODE: 418

GENERAL DESCRIPTION: White granules

FORMULA: \((\text{NH}_4\text{)}_2\text{HPO}_4\)

MOLECULAR WEIGHT: 132.1

CAS NO.: 7783-28-0

INS NO.: 342(ii)

DATE EFFECTIVE: August, 2011

CHARACTERISTICS

SPECIFICATION LIMITS

Assay, \%(\text{NH}_4\text{)}_2\text{HPO}_4\) 96.0-102.0

P\text{2}O\text{5}, \% 53.0-61.0

pH, 1% solution 6.5-7.0

Arsenic (as As), mg/kg 3 Maximum

Fluoride (as F), mg/kg 10 Maximum

Lead (as Pb), mg/kg 4 Maximum

NOTE: Specification Limits are subject to change from time to time. Please contact us for current data sheet.

Product Location: Monterrey, Mexico

Packaging: 25-kg lined polyethylene bags

Labeling Requirements: Product label required by law.

Shipping Classification: Ammonium Phosphate

Handling Precautions: No precautionary statement required on label

Handle in accordance with good industrial hygiene and safety practices. These include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing.
Diammonium Phosphate, Anhydrous (DAP), FCC/Food Grade, from either ICL Performance Products LP or ICL Fosfatos y Aditivos México S.A. de C.V., (“Seller”), as applicable, is a white granular product, which complies with the specification of the current Food Chemicals Codex for Ammonium Phosphate, Dibasic.

**Key Properties/Functions:**
- pH, 1% solution: 6.5-7.0
- Bulk density (g/cc): 0.65-0.85
- Shelf-life: 24 months
- Buffering agent
- Sugar clarifier
- Dough conditioner
- Leavening agent
- Yeast food
- Nutrient source

**Applications:**
- Generally recognized as safe (GRAS) when added directly to human food under 21 CFR 184.1141b (Ammonium phosphate, dibasic) when used at levels not to exceed current good manufacturing practice.
- Generally recognized as safe (GRAS) when used in animal foods and feeds under 21CFR 582.1141 (Ammonium phosphate) when used in accordance with current good manufacturing or feeding practice.
- Approved for use by TTB (Alcohol and Tobacco Tax and Trade Bureau), according to 27 CFR 24.246, as a yeast nutrient in wine production and to start secondary fermentation in the production of sparkling wines. The amount used shall not exceed 8 lbs. per 1000 gals. (0.96 g/L) of wine.
- Approved for use by TTB (Alcohol and Tobacco Tax and Trade Bureau), according to 27 CFR 24.247, for use as a yeast nutrient in distilling material. The amount used shall not exceed 10 lbs/1000 gals. (1.2 g/L).
- Approved for use in ruminant feed as a source of phosphorus and nitrogen under 21 CFR 573.320 (Diammonium phosphate) in an amount that supplies not more than 2% of equivalent crude protein in the total daily ration. DAP also meets AAFCO feed ingredient definition 57.16. End user must comply with additional labeling and feed requirements as specified in these regulations.

FOR MORE COMPLETE INFORMATION ON PROPERTIES AND SAFE HANDLING OF THIS MATERIAL, SEE THE SELLER’S MATERIAL SAFETY DATA SHEET (MSDS).

NOTICE: Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Seller makes no representations or warranties as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Seller be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to use any product, process, equipment or formulation in conflict with any patent, and Seller makes no representation or warranty, express or implied, that the use thereof will not infringe any patent. The data set forth herein are based on samples tested and are not guaranteed for all samples or applications. Such data are intended as guides and do not reflect product specifications for any particular product. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OR MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.