

MATERIAL SAFETY DATA SHEET

DIRECTIVE (EEC) 91-155

AMMONIUM PHOSPHATE

Date: 3/22/2006

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1 – PRODUCT AND COMPANY IDENTIFICATION

Trade name: DAP Crystal
Chemical name: Ammonium Phosphate
Synonyms: DAP diammonium hydrogenorthophosphate, secondary ammonium phosphate, dibasic ammonium phosphate
Formula: $(\text{NH}_4)_2\text{HPO}_4$
CAS n°: 7783-28-0
Index EEC n°: Non regulated
Chemical family: non-organic salt
Supplier: LAMOTHE ABIET - B.P. 75
33 015 BORDEAUX CEDEX
Tel: +33 (0)5.57.77.92.9 Fax: +33 (0)5.56.86.40.02

- Emergency telephone number: Bordeaux poison center: +33 (0)5.56.96.40.80

2 – COMPOSITION/ INFORMATION ON COMPONENTS

Diammonium phosphate $(\text{NH}_4)_2\text{HPO}_4$: 99.6% min, CAS n°: 7783-28-0,
EEC n° (EINECS): 231-987-8, Substance not included in the list of hazardous substances (appendix 1 of the directive 67/548 EEC), Classification: Non regulated, R: Non regulated.

3 – HAZARDS IDENTIFICATION

Inhalation: Dust can cause an irritation of the respiratory system. Skin contact: a prolonged skin contact may be irritating. Low toxicity. Eye contact: may cause harmless irritation. Ingestion: Low toxicity, esophagus and stomach irritation, abdominal pain.

4 – FIRST AID MEASURES

Inhalation: Move casualty to ventilated area. If casualty is not breathing, proceed with artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

Ingestion: No aid is required usually. If large quantities are ingested, seek medical attention.

Eye contact: Immediately flush eyes with water for at least 15 minutes. Seek medical attention.

Skin contact: Immediately flush with soap and water. Remove contaminated clothes and shoes, wash before using them again.

5 – FIRE-FIGHTING MEASURES

Not flammable. Extinguishing media: All extinguishing media can be used. Extinguishing media not to be used: None. Particular hazards: When the product is heated to decomposition, it releases toxic fumes of ammonia and phosphorus oxide. Personal protection equipment: Fire fighters should wear complete protective clothing including self contained breathing apparatus.

6 – ACCIDENTAL RELEASE MEASURES

Personal protection: Wear complete protective clothing including boots, gloves, rubber overall and a self contained breathing apparatus. Always wear an eye protection and keep unnecessary personal from entering.

Environmental protection: Prevent the product from entering the sewers, storm drains, surface waters, soil.

Cleaning procedures: Spillage should be swept up and placed in dry and clean chemical waste containers. Cover containers. Remove containers from the spilling area. Wash with water.

7 – HANDLING AND STORAGE

Handling: Avoid inhaling dust, and eye and skin contact. Avoid contact with clothing. Wash thoroughly after handling, remove contaminated clothes and wash them before using them again. Containers, empty or not, contain residues and vapors. Always observe hazards procedures and manipulate empty containers like full ones.

Storage: store in cool, dry and well-ventilated area, away from incompatible materials. Always keep packages dry.

8 – EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure control

Threshold Limit Values (TLV): No set values. Technical control: Ensure mechanical local ventilation so as to maintain dust production as low as possible.

Personal protective equipment

Respiratory protection: If dust is produced under normal conditions of use, wear approved respiratory equipment corresponding to the emission rates. Appropriate breathing apparatus can be complete face shield or face mask with filtrating replaceable dust cartridges, a pressure demand breathing apparatus or a constant flow air-line respirator. Hand protection: Wear rubber gloves. Eye protection: If no complete face shield, wear protective glasses. Skin protection: Wear protective clothing including gumboots. Other protection measures: An eye wash station and an emergency shower should be readily accessible for personal.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystals **anhydrides**, Odor: Odorless, pH 8, Boiling point: Not applicable, Melting point: Decomposes at 100°C, Flash point: Not flammable, Ignition: Not flammable, Auto-ignition: Not flammable, Explosion hazards: Not flammable, Flammable properties: None, Vapor pressure: Not applicable, Relative density: 1.619, Solubility in water (g/hl at 20°C): 690, Viscosity: Not applicable, Vapor density: Not applicable

10 – STABILITY AND REACTIVITY

Chemical stability: Stable, Conditions to avoid: High temperatures, humidity, Material to avoid: Magnesium, strong acids, strong bases, Hazardous decomposition products: Toxic fumes of ammonia and phosphorus oxide.

11 – TOXICOLOGICAL INFORMATION

Eye contact: Dust may be irritating, Skin contact: irritation only with prolonged contact, Ingestion: No identified harmful effect, Inhalation: Mucous membranes irritation, carcinogenic effects: None has been identified yet, mutagenic effects: None has been identified yet, Chronic effects: None has been identified yet.

12 – ECOLOGICAL INFORMATION

Environmental fate: Phosphate stimulates the growth of algae and thus may affect water quality. **Aquatic toxicity:** LC50 minnow 155 ppm/96 hr

13 – DISPOSAL CONSIDERATIONS

Waste disposal methods: Contaminated product and material used for the cleaning of spill or leakage must be disposed of in accordance with requirements demanded for this material. Check for federal, state and local regulations before starting any waste disposal procedure.

Contaminated packages: Empty containers that may retain gas or vapor residues must be disposed of as described here above.

14 – TRANSPORT INFORMATION

N°UNO: Substance not included in the UNO classification for hazardous materials, Generic name: Not regulated, RID/ADR, Hazard class n°: Not regulated, Labeling: Not regulated, Hazard identification n°: Not regulated, Packing group: Not regulated, Hazard label n°: Not regulated, **IMDG**, Hazard class n°: Not regulated, Labeling: Not regulated, Hazard identification n°: Not regulated, Packing group: Not regulated, hazard label n°: Not regulated, Marine pollutant: No

15 – REGULATORY INFORMATION

Classification: Non regulated product, Hazard symbol: This substance is not considered as **...**, R phrases: Hazardous material included in appendix 1, Safety precautions phrases S: from the EEC Directive 67/548

16 – OTHER INFORMATION

Registration N°: Toxicity RTECS/NIOSH: TB 93 75 000

TSCA: Substance listed in the US toxic substances control act inventory
5th edition Publication date December 10th, 1996
