

# SAFETY DATA SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifiers

| Product name | Ammonium phosphate, dibasic                              |
|--------------|--|
| CAS number   | 7783-28-0  |
| Synonyms     | Diammonium phosphate; DAP; Diammonium hydrogen phosphate |

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

# **1.3** Details of the supplier of the safety data sheet

| Company   | Lab Alley, LLC<br>12501 Pauls Valley Road<br>Austin, Texas 78737<br>U.S.A. |
|-----------|--|
| Telephone | 512-668-9918   |
| Fax       | 512-886-4008   |

# **1.4 Emergency telephone**

| Emergency Phone # | US & Canada: 1-800-535-5053  | INFOTRAC |
|-------------------|------------------------------|----------|
|                   | International 1-352-323-3500 | INFOTRAC |

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

# **2.2 GHS Label elements, including precautionary statements** None required.

# **2.3 Hazards not otherwise classified (HNOC) or not covered by GHS** None identified.

# **SECTION 3: Composition/information on ingredients**

# 3.1 Components

| Chemical name           | Common name and synonyms                                  | CAS number | Concentration |
|-------------------------|---|------------|---------------|
| Diammonium<br>phosphate | Ammonium phosphate, dibasic;<br>Diammonium phosphate; DAP | 7783-28-0  | <=100%        |

# **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

## General advice

| If inhaled              | Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.     |
|-------------------------|--|
| In case of skin contact | Wash off immediately with plenty of water for at least 15 minutes If skin irritation persists, call a physician. |
| In case of eye contact  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.  |
| If swallowed            | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.            |

- **4.2 Most important symptoms and effects, both acute and delayed** None reasonably foreseeable.
- **4.3** Indication of any immediate medical attention and special treatment needed If symptoms persist, call a physician. Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media Suitable extinguishing media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. Unsuitable extinguishing media No information available.

# 5.2 Specific hazards arising from the substance or mixture

Non-combustible; substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Hazardous Combustion Products: Oxides of phosphorus. Nitrogen oxides (NOx). Ammonia.

# 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 5.4 Further information

| Flash Poin  | t           |                    | No informa  | ation available.         |      |
|-------------|-------------|--------------------|-------------|--------------------------|------|
| Autoignitio | on Temperat | ure                | No informa  | ation available.         |      |
| Explosion   | limits      |                    |             |                          |      |
|             | Upper       | No data a          | available.  |                          |      |
|             | Lower       | No data a          | available.  |                          |      |
|             | Sensitivity | to Mechanical Im   | pact        | No information available | ole. |
|             | Sensitivity | to Static Discharg | ge          | No information available | ole. |
|             | NFPA        |                    | -           |                          |      |
|             | Health      | Flammability       | Instability | Physical hazards         |      |
|             | 0           | 0                  | 0           | N/A                      |      |

# **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures** Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

## 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

**6.3 Methods and materials for containment and cleaning up** Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

## 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Precautions on safe handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

#### **Storage conditions**

Keep containers tightly closed in a dry, cool, and well-ventilated place.

## Incompatibilities

Strong oxidizing agents. Strong acids. Copper. Copper alloys. Bases.

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Occupational exposure limits

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

## 8.2 Exposure controls

## Appropriate engineering controls

None under normal use conditions.

## Personal protective equipment

#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

## **Skin protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Respiratory protection**

No protective equipment is needed under normal use conditions.

## Control of environmental exposure

No information available.

## **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

| Physical State<br>Appearance<br>Odor<br>Odor Threshold<br>pH<br>Melting Point/Range<br>Boiling Point/Range<br>Evaporation Rate<br>Flammability (solid)<br>Flammability or explosive limit<br>Upper<br>Lower                                      | Solid crystalline powder<br>White<br>Odorless<br>No information available<br>8 (5% soln)<br>155 °C / 311 °F<br>Decomposes<br>Not applicable<br>No information available<br>No data available   |
|--|--|
| Vapor Pressure<br>Vapor Density<br>Density<br>Solubility<br>Partition coefficient;<br>n-octanol/water<br>Autoignition Temp<br>Decomposition Temp<br>Viscosity<br>Molecular Formula<br>Molecular Weight<br>VOC Content(%)<br>Oxidizing properties | No information available<br>Not applicable<br>1.619<br>Soluble in water<br>No data available<br>No information available<br>100 °C<br>Not applicable<br>(NH4)2HPO4<br>132.06 g/mol<br>No information available<br>No information available |

# 9.2 Other safety information

No information available.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No information available.

# 10.2 Chemical stability

Stable under normal temperatures and pressures. Gradually loses about 8% NH3 on exposure to air.

# 10.3 Possibility of hazardous reactions

None under normal processing.

# 10.4 Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation. Exposure to air.

# 10.5 Incompatible materials

Strong oxidizing agents, Strong acids, Copper, Copper alloys, Bases.

# **10.6 Hazardous decomposition products**

Oxides of phosphorus, Nitrogen oxides (NOx), Ammonia.

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## **Product Information, Component Information**

#### Acute toxicity

| Component            | LD50 Oral         | LD50 Dermal          | LC50 Inhalation   |
|----------------------|-------------------|----------------------|-------------------|
| Diammonium phosphate | >2000 mg/kg (Rat) | >7940 mg/kg (Rabbit) | > 5 mg/L (Rat) 4h |

#### Skin corrosion/irritation

No information available.

## Serious eye damage/eye irritation

No information available.

## Respiratory or skin sensitization

No information available.

## Germ cell mutagenicity

No information available.

#### Carcinogenicity

| Component            | CAS       | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|----------------------|-----------|------------|------------|------------|------------|------------|
| Diammonium phosphate | 7783-28-0 | Not listed |

## Specific target organ toxicity - single exposure

None known.

Specific target organ toxicity - repeated exposure None known.

## **Reproductive toxicity**

No information available.

## Chronic effects

No information available.

## **11.2 Additional Information**

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

| Product    | Species |                     | Test Results   |  |
|------------|---------|---------------------|--|--|
| Diammonium | LC50    | Oncorhynchus mykiss | 26.5 mg/L, 96h<br>24.8 - 29.4 mg/L, 96h flow-<br>through |  |
| phosphate  | LC50    | Pimephales promelas | 33 mg/L, 96h static<br>3.3 mg/L, 96h                     |  |

## 12.2 Persistence and degradability

Persistence is unlikely.

# 12.3 Bio accumulative potential

No information available.

## 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

# 12.5 Results of PBT and vPvB assessment

No information available.

# **12.6 Endocrine disrupting properties** No information available.

# 12.7 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

# 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## **SECTION 14: Transport information**

**DOT (US)** Not regulated.

IMDG Not regulated.

Not regulated.

## **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4) Not applicable.

SARA 304 Emergency release notification Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed.

> SARA 311/312 Hazardous See Section 2 for more information.

SARA 313 (TRI reporting) Listed, Diammonium phosphate (CAS #7783-28-0).

## Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act Not regulated.

## FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

## **US state regulations**

US. Massachusetts RTK - Substance List

Not listed.

# US. New Jersey Worker and Community Right-to-Know Act Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law Not listed.

# **California Proposition 65**

Not listed.

# **SECTION 16: Other information**

Issue date: 10/08/2007 Revision 1: 12/12/2024

# **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.