

MATERIAL SAFETY DATA SHEET**Product Name:** Ammonium phosphate dibasic**CAS No.:** 7783-28-0**Version:** 0**1. Identification**

Product Code : 90120, 90334
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2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
AMMONIUM PHOSPHATE DIBASIC	7783-28-0	98-100%

3. Hazards Identification**Hazard classification****Health hazards**

Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 2
Specific target organ toxicity - single exposure : Category 3

Environmental hazards

Acute hazards to the aquatic environment : Category 3

Labels elements**Hazard symbol**

Signal word : Warning
Hazard statement : Causes serious eye irritation.
Causes skin irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Harmful to aquatic life.

Precautionary statement

Prevention : Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a

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well-ventilated area. Avoid release to the environment.

- Response** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- Storage** : Store in a well-ventilated place. Keep container tightly closed. Store locked up.
- Disposal** : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Other hazards which do not result in GHS classification** : None.

4. First Aid Measures

- General information** : Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
- Ingestion** : Call a physician or poison control center immediately. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
- Inhalation** : Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration.
- Skin contact** : Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
- Eye contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.
- Most important symptoms/effects, acute and delayed** : Irritating to eyes, respiratory system and skin.
- Indication of immediate medical attention and special treatment needed** : Treat symptomatically. Symptoms may be delayed

5. Fire fighting measures**Suitable (and unsuitable) extinguishing media**

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- General fire hazards** : In case of fire and/or explosion do not breathe fumes.
- Suitable extinguishing media** : Use fire-extinguishing media appropriate for surrounding materials.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : Contact with metals may evolve flammable hydrogen gas. Fire may produce irritating, corrosive and/or toxic gases.
- Special protective equipment and precautions for firefighters**
- Special fire fighting procedures** : Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.
- Special protective equipment for fire-fighters** : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures** : Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Methods and material for containment and cleaning up** : Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal .
- Notification Procedures** : Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved .
- Environmental precautions** : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

- Precautions for safe handling** : Use personal protective equipment as required. Do not breathe mist or vapor. Do not taste or swallow. Do not eat, drink or smoke when using the product. Use only with adequate ventilation. Wash hands thoroughly after handling. Avoid contact with eyes. Avoid contact with skin.
- Conditions for safe storage, including any incompatibilities** : Do not store in metal containers. Store in a dry place. Store in a well-ventilated place. Store locked up. Keep container tightly closed.

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8. Exposure Controls Personal Protection**Control parameters****Occupational exposure limits** : None of the components have assigned exposure limits.**Appropriate engineering controls** : No data available.**Individual protection measures, such as personal protective equipment****General information** : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.**Eye/face protection** : Wear safety glasses with side shields (or goggles) and a face shield.**Hand protection** : Chemical resistant gloves.**Other** : Wear suitable protective clothing.**Respiratory protection** : In case of inadequate ventilation use suitable respirator.**Hygiene measures** : Provide eyewash station and safety shower. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using the product. Wash contaminated clothing before reuse.**9. Physical and Chemical Properties****Appearance** : White Solid Crystals or powder.**Odor** : Odorless.**pH** : Approximate 8**Melting point/freezing point** : 155 °C Decomposes.**Initial boiling point and boiling range** : No data available**Flash Point** : No data available**Vapor pressure** : No data available.**Vapor density** : No data available.**Relative density** : 1.62 (20 °C).**Solubility in water** : 588 g/l.**Solubility (other)** : No data available.**Formula** : $H_3N \cdot 1/2H_3O_4P$ **Molecular Weight** : 132.06 g/mol.

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Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Material is stable under normal conditions.
Possibility of hazardous reactions	:	Hazardous polymerization does not occur.
Conditions to avoid	:	Heat, sparks, flames. Contact with air. Contact with incompatible materials.
Incompatible materials	:	Sodium hypochlorite.
Hazardous decomposition products	:	Ammonia oxides of phosphorus.

11. Toxicological Information**Information on likely routes of exposure**

Ingestion	:	May be harmful if swallowed. May cause irritation of the gastrointestinal tract.
Inhalation	:	May be harmful if inhaled. May cause drowsiness or dizziness.
Skin contact	:	May cause irritation.
Eye contact	:	Causes serious eye irritation.

Information on toxicological effects**Acute toxicity (list all possible routes of exposure)**

Oral Product	:	No data recorded.
Dermal Product	:	No data available.
Inhalation Product	:	No data available.
Repeated dose toxicity Product	:	No data available.
Skin corrosion/irritation Product	:	Causes skin irritation.
Serious eye damage/eye irritation Product	:	Causes serious eye irritation.
Respiratory or skin sensitization Product	:	Not a skin sensitizer.
Carcinogenicity Product	:	This substance has no evidence of carcinogenic properties.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans DIOXANE	:	No carcinogenic components identified.
US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE	:	No carcinogenic components identified.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050	:	No carcinogenic components identified.

MATERIAL SAFETY DATA SHEET**Product Name:** Ammonium phosphate dibasic**CAS No.:** 7783-28-0**Version:** 0**Germ cell mutagenicity**

- In vitro Product** : No mutagenic components identified.
In vivo Product : No mutagenic components identified.
Reproductive toxicity Product : No components toxic to reproduction.
Specific target organ toxicity - single exposure Product : Respiratory tract irritation.
Specific target organ toxicity - repeated exposure Product : No data available.
Aspiration hazard Product : Not classified.
Other effects : None known.

12. Ecological Information**Ecotoxicity****Acute hazards to the aquatic environment :**

- Fish Product** : No data available.
Specified substance(s): : LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 252 mg/l Mortality
AMMONIUM PHOSPHATE :
DIBASIC LC 50 (Fathead minnow (Pimephales promelas), 96 h): 33 mg/l Mortality .

- Aquatic invertebrates Product** : No data available.

Chronic hazards to the aquatic environment :

- Fish Product** : No data available.
Aquatic invertebrates Product : No data available.
Toxicity to Aquatic Plants Product: : No data available.
Persistence and degradability
Biodegradation Product : There are no data on the degradability of this product.
BOD/COD ratio Product : No data available.
Bioaccumulative potential
Bioconcentration factor (BCF) Product : No data available on bioaccumulation.
Partition coefficient n-octanol / water (log Kow) Product : No data available.
Mobility in soil : The product is water soluble and may spread in water systems.

- Other adverse effects** : Harmful to aquatic organisms.

13. Disposal consideration

- Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.

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14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT			Not Regulated		
IMDG			Not Regulated		
IATA			Not Regulated		

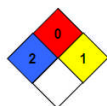
15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
 No Data Available.

16. Other Information

NFPA Hazard ID



■ Flammability
■ Health
■ Reactivity
 Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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