

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT IDENTIFICATION

Product Name Ammonium Phosphate Sulphate
Synonyms 16-20-0-14
Chemical Family Ammonium Salt
Product Use Agricultural Fertilizer
Chemical Formula $(\text{NH}_4)_2\text{H}_2\text{P}_2\text{O}_7$
Molecular Weight N/A

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	% by WT	Hazardous?	OSHA - PEL TWA	ACGIH - TLV TWA	STEL
No regulated components						

SECTION 3 HAZARDS IDENTIFICATION

Ingestion: Minimal hazard under normal conditions and use. Ingestion of large quantities may cause gastrointestinal discomfort, vomiting, weakness or other medically related problem.

Inhalation: Dusty conditions may cause mechanical aggravation to respiratory mucous membranes.

Eye Contact: Dust from this product may cause particulate discomfort to eyes.

Skin Absorption: Not normally absorbed through the skin.

Skin Contact: Slight dermal abrasion is possible with prolonged contact, especially around cuffs and collars.

Effects of Overdose: Ingestion of large doses may cause diarrhea, nausea, abdominal cramps or formation of methemoglobinemia. Seek medical attention.

SECTION 4 FIRST AID MEASURES

Ingestion: If large amount is ingested, give 2-3 glasses of water and induce vomiting. Seek medical attention.

Inhalation: Remove to fresh air. Seek medical attention if condition persists.

Eye contact: Flush eyes with running water for at least 15 minutes. Seek medical attention if condition persists.

Skin Contact: Wash with soap and water. Seek medical attention if condition persists.

Note to Physician: Consult standard literature. Treatment based on the sound judgment of the physician and the individual reactions of the patient.

SECTION 5 FIRE FIGHTING MEASURES

- Extinguishing Media: Use media suitable to extinguish source of fire.
- Special Fire Fighting Procedures: Product is not combustible.
- Unusual fire and Explosion Hazards: During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH₃, So_x, PO_x or CN.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- Environmental Precautions: Keep out of water supplies, lakes, ponds, streams and rivers. This product is a fertilizer and may promote algae growth.
- Steps to be taken in case material is released or spilled:
Keep from entering waterways. Sweep up material and place in suitable container for use as a fertilizer or for disposal.

SECTION 7 HANDLING AND STORAGE

- Precautions to be taken in handling and storing:
Store in a cool, dry area. Prevent spillage and separate from strong oxidizers. Use normal safety procedures and good personal hygiene. Keep out of the reach of children.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Ventilation Protection: Adequate ventilation.
- Respiratory Protection: Approved dust respirator when necessary.
- Protective Clothing: Normal clean work clothing.
- Eye Protection: In dusty conditions, safety glasses with side shields or goggles may be necessary.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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|----------------------|--|--------------------------|----------------|
| Boiling Point: | Not applicable | Solubility in Water: | Complete |
| Density: | 62-63 lbs/ft ³ | % Volatiles (by volume): | Not applicable |
| Flashpoint: | Non-flammable | Vapor Pressure, mm Hg: | Not applicable |
| pH: | 10 g/100 g H ₂ O: 4.5-5.5 | Reaction with Water: | None |
| Appearance: | Gray granules | | |
| Extinguishing Media: | Use media suitable to extinguish source of fire. | | |

SECTION 10 STABILITY AND REACTIVITY

- Stability (Normal Conditions): Stable.
- Conditions to Avoid: Extremely high temperatures.
- Incompatibility (Materials to Avoid): Strong oxidizing agents. Prolonged contact may cause oxidation of unprotected metals.
- Hazardous Decomposition Products: During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH₃, So_x, PO_x or CN.
- Hazardous Polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: LD₅₀(rat) is greater than 2,000 mg/kg (ppm); not acutely toxic by oral exposure. (TFI Product Testing Results, OECD Guideline 425).

Acute Fish Toxicity: 96-hour LC₅₀ is greater than 107 mg/L (ppm); low acute toxicity to fish. (TFI Product Testing Results, OECD Guideline 203)

SECTION 12 ECOLOGICAL EFFECTS

None listed

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Procedure Pick up with a shovel and broom and use as a fertilizer by applying to soil using good agriculture and soil management.

SECTION 14 TRANSPORT INFORMATION

TC (TDG) Not regulated.
DOT Not regulated.

SECTION 15 LEGEND

ACGIH American Conference of Governmental Industrial Hygienists
CAS NUMBER Chemical Abstracts Service Registry Number
DOT Department of Transportation - United States
LD₅₀ Lethal Dose expected to kill 50% of a group of test animals.
PEL Permissible Exposure Limit
OSHA US Occupational Safety and Health Administration
STEL Short Term Exposure Limit
TC Transport Canada
TDG Transportation of Dangerous Goods
TLV Threshold Limit Value
TWA Time-Weighted Average

SECTION 17 MSDS PREPARATION INFORMATION

Prepared by Border Chemical Company Limited - (204) 222-3276
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Emergency Phone Number (204) 222-3276 - 24 hours

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