



BORDER CHEMICAL

COMPANY LIMITED

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Ammonium Phosphate Sulphate 16-20-0-14
SH02-19

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 of use. Ingestion of large quantities may cause gastrointestinal discomfort, vomiting, weakness or other medically related problems.
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 Ingestion of large doses may cause diarrhea, nausea, abdominal cramps or formation of
Overdose methemoglobinemia. See 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. See 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. See medical attention if condition persists.
Note to Physician Consult standard literature. Treatment based on the sound judgement 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 During extremely high temperature fire conditions, the product may reach melting
Hazards point and decompose and release to NH_3 , 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

Boiling Point	Not applicable	Solubility in Water	Complete
Density	62-63 lbs/ft ³	% Volatiles (by volume)	Not applicable
Flashpoint	Non-flammable	Vapour Pressure, mmHg	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) Extremely high temperatures

Conditions to Avoid Strong oxidizing agents. Prolonged contact may cause oxidation of unprotected metals.

Incompatibility (Materials to Avoid) 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.

Stable 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 Guidelines 425).

Acute Fish Toxicity 96-hour LC₅₀ is greater than 107 mg/L (ppm); low acute toxicity to fish. (TFI Product Testing Results, OECD Guidelines 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 - Canada)	Not regulated
DOT (US)	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
LD ₅₀	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
Date Issued	May 8, 2002
Date Reviewed/Revised	June 2003; April 30, 2006, April 1, 2009, April 1, 2012, April 1, 2015
Emergency Phone Number	(204) 222-3276 - 24 hours

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