



AMMONIUM SULPHATE

PRODUCT INFORMATION

CHEMICAL NAME: Ammonium sulphate
 SYNONYMS: Ammonium sulphate fertilizer
 CHEMICAL FAMILY: Inorganic Sulphates MOLECULAR FORMULA: (NH₄)₂SO₄
 SHIPPING NAME: Not a dangerous good
 PIN - (UN/NA): Not controlled WHMIS: Not controlled
 PRODUCT USE:
 Fire retardant, drilling fluids, fertilizers, water treatment, fermentation, viscose rayon, tanning, food additive.
 SUPPLIER: Panther Industries Inc.
 Box 628
 Davidson, Sk.
 S0G 1A0
 EMERGENCY TELEPHONE NUMBER: (306) 567-2814

HAZARDOUS INGREDIENTS

INGREDIENTS:	WEIGHT %	C.A.S. REGISTRY NUMBER:
Ammonium sulphate	>99.8	7783-20-2
Water		0-0.3 7732-18-5
Trace metal Salts		0-0.1

PHYSICAL DATA

PHYSICAL STATE: Solid
 ODOUR AND APPEARANCE:
 Colourless to white crystals
 ODOUR THRESHOLD: N/A
 VAPOUR PRESSURE: Not available VAPOUR DENSITY: Not available
 EVAPORATION RATE: Not available pH: Not applicable
 BOILING POINT: Not applicable FREEZING/MELTING POINT: Decomposes at 280 oC.
 SOLUBILITY IN WATER: 729 g/L BULK DENSITY: 1100 kg/m³
 MOLECULAR WEIGHT: 132 SPECIFIC GRAVITY(water=1): 1.77
 % VOLATILE BY VOLUME: Not available
 COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

FIRE AND EXPLOSION DATA

CONDITIONS OF FLAMMABILITY: Not flammable
 MEANS OF EXTINCTION: Product does not burn. Where fire is involved, use any fire fighting agent appropriate for surrounding material; use water spray to cool fire-exposed surfaces.
 FLASH POINT: Not flammable UPPER FLAMMABLE LIMIT: Not applicable
 LOWER FLAMMABLE LIMIT: Not applicable
 AUTO IGNITION TEMPERATURE: Not available
 HAZARDOUS COMBUSTION PRODUCTS: In a fire situation, decomposition products of ammonium sulphate include ammonia and sulphur oxides.
 SPECIAL FIRE FIGHTING PROCEDURES:
 Wear NIOSH-approved self-contained breathing apparatus and protective clothing. Use water spray to cool containers and to knock down fumes. Be aware that decomposition products could react with



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oxidizers.

EXPLOSION HAZARDS:

Not applicable.

REACTIVITY DATA

STABILITY: Stable under normal conditions. When heated above 280 oC, ammonium sulphate decomposes liberating ammonia and sulphur oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY:

Sodium Hydroxide

HAZARDOUS REACTIONS/DECOMPOSITIONS:

Contact with sodium hydroxide liberates ammonia gas.

HEALTH HAZARD DATA

INHALATION: Injury is unlikely. Dust may cause upper respiratory tract irritation.

SKIN CONTACT: May cause skin irritation.

EYE CONTACT: Dust may cause mild to moderate eye irritation.

INGESTION: Low to moderate toxicity. Ingestion of large amounts may cause injury.

CHRONIC EXPOSURE EFFECTS: Prolonged or repeated skin exposures may cause mild skin irritation.

EXPOSURE LIMITS: Treat as nuisance particulate. TLV (ACGIH and Saskatchewan OEL) = 10mg/M3 of total dust, 5mg/M3 of respirable dust.

IRRITANCY: Mild irritant.

MUTAGENICITY: Data not available.

CARCINOGENICITY: Not known to be carcinogenic.

SENSITIZATION TO PRODUCT: Data not available.

REPRODUCTIVE TOXICITY: Data not available.

SYNERGISTIC MATERIALS: Data not available.

TERATOGENICITY DATA: Data not available.

ANIMAL TOXICITY DATA:

LD50 (oral, rat): 3000mg/kg

OTHER HEALTH EFFECTS: None known

FIRST AID MEASURES

INHALATION:

Remove the victim to fresh air if effects occur. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention if there is any difficulty in breathing.

SKIN CONTACT:

Wash with flowing water. Wash contaminated clothing before reuse. Seek medical attention if irritation persists.

EYE CONTACT:

Immediately flush with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek medical attention if irritation persists.

INGESTION:

Give large amounts of water and induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.



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PREVENTATIVE MEASURES

RESPIRATORY PROTECTION:

Respiratory protection is not normally required. If use creates dust formations, then a NIOSH-approved respirator with a dust cartridge is recommended.

SKIN PROTECTION:

Coveralls and leather gloves recommended to prevent skin dryness and irritation.

EYE/FACE PROTECTION:

Chemical goggles or safety glasses are to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

SPECIAL HANDLING PROCEDURES:

Use sensible industrial hygiene and housekeeping practises. Avoid dust formations. Wash thoroughly after handling. Avoid situations that could lead to harmful exposure.

STORAGE REQUIREMENTS: Store in a cool, dry, well ventilated place. Keep container tightly closed, and away from incompatible materials.

ENGINEERING CONTROLS:

Use general or local mechanical exhaust ventilation to control dust and to meet TLV requirements.

ENVIRONMENTAL PROTECTION DATA

STEPS IN THE EVENT OF A LEAK OR SPILL:

Scoop or sweep up material and place in a suitable container for recycle. Burying or flushing with large amounts of water is effective where water contamination is not a concern. If material has entered a water course or stream, advise local authorities.

ENVIRONMENTAL EFFECTS: Data not available.

DEACTIVATING CHEMICALS: Data not available.

WASTE DISPOSAL METHODS:

Dispose in accordance with all federal, provincial, and local regulations.

PREPARATION INFORMATION

MSDS PREPARED BY: Technical Department
Panther Industries Inc.

TELEPHONE NUMBER: (306) 567-2814

DATE PREPARED/REVISED: FEB 2007

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REFERENCES:

1. Manufacturers MSDS.