

sheritt

MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL IDENTIFICATION AND USE

PRODUCT NAME/IDENTIFIER

21-0-0-24
AMMONIUM SULPHATE

MANUFACTURER

Sheritt Gordon Limited
Fort Saskatchewan, Alberta

EMERGENCY TELEPHONE NO.

(403) 998-6666

TRADE NAME

21-0-0-24

CHEMICAL NAME

Ammonium Sulphate

CHEMICAL FAMILY

Sulphate Salt

CHEMICAL FORMULA

 $(\text{NH}_4)_2\text{SO}_4$

PRODUCT USE

Agricultural fertilizer, flame
proofing, tanning, galvanizing
iron.

CONTROLLED PRODUCT UNDER WHMIS

YES ☐NO ☒

WHMIS CLASSIFICATION

This product is classified non-
hazardous in accordance with WHMIS
criteria.

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

Ammonium Sulphate 99%

Ammonium Sulphate is considered as non-hazardous.

The ACGIH TLV-TWA for particulates not otherwise classified is
 $10\text{mg}/\text{m}^3$.

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SECTION III - PHYSICAL DATA

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PHYSICAL STATE (gas, liquid or solid)	Solid
BOILING POINT (°C)	Decomposes above 280
FREEZING POINT (°C)	Not applicable
VAPOR PRESSURE (mm Hg)	Not applicable
EVAPORATION RATE	Not applicable
VAPOR DENSITY (Air=1)	Not applicable
DENSITY (kg/m ³)	Bulk density 1020
SPECIFIC GRAVITY (Water=1)	Not available
MOLECULAR WEIGHT	132
pH	Not applicable
ODOR THRESHOLD	Not applicable
COEFFICIENT OF WATER/OIL DISTRIBUTION	Soluble in water
APPEARANCE AND ODOR	Colorless or white crystals Odorless

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SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

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FLAMMABILITY YES [] NO [X]

IF YES, UNDER WHICH CONDITIONS?

MEANS OF EXTINCTION Use water spray to cool fire exposed surfaces.

FLASHPOINT (°C) AND METHOD	Not applicable
UPPER EXPLOSION LIMIT (% by vol.)	Not applicable
LOWER EXPLOSION LIMIT (% by vol.)	Not applicable
AUTO IGNITION TEMPERATURE (°C)	Not applicable
TDG FLAMMABILITY CLASSIFICATION	Not applicable

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HAZARDOUS COMBUSTION PRODUCTS

When ammonium sulphate is heated above 280°C hazardous decomposition products are released including nitrogen oxides and sulphur oxides.

EXPLOSION SENSITIVITY TO MECHANICAL IMPACT	Not applicable
EXPLOSION SENSITIVITY TO STATIC DISCHARGE	Not applicable

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SECTION V - TOXICOLOGICAL PROPERTIES OF MATERIAL

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PRIMARY ROUTE(S) OF ENTRY

[X]	SKIN CONTACT
[]	SKIN ABSORPTION
[]	EYE CONTACT
[X]	INHALATION
[]	INGESTION

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POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC EXPOSURE)

Eyes:

- Dust may cause mild to moderate eye irritation.

Skin:

- Prolonged or repeated exposure may cause mild skin irritation.

Ingestion:

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

Inhalation:

- Injury is unlikely. Dusts may cause upper respiratory tract irritation.

=====SECTION VI - FIRST AID MEASURES=====

Eyes:

- Irrigate with water for at least 15 minutes. Consult a physician if irritation persists.

Skin:

- Wash off in flowing water. Wash contaminated clothing before reuse.

Ingestion:

- Induce vomiting if large amounts are swallowed. Call a physician.

Inhalation:

- Remove to fresh air if effects occur. Consult a physician.

=====SECTION VII - REACTIVITY DATA=====

CHEMICAL STABILITY YES [X] NO []
IF NO, UNDER WHICH CONDITIONS?

CONDITIONS OF REACTIVITY

Will react with caustic.

INCOMPATIBILITY WITH OTHER SUBSTANCES

Contact with caustic will result in liberation of ammonia fumes.

HAZARDOUS DECOMPOSITION PRODUCTS

When heated above 280°C the ammonium sulphate decomposes liberating nitrogen oxides and sulphur oxides.

=====SECTION VIII - PREVENTIVE MEASURES=====

RESPIRATORY (Specify)

Use NIOSH-approved respiratory protection against nuisance dusts if dust levels exceed exposure limits.

EYES (Specify)

Wear safety glasses.

GLOVES (Specify)

Wear leather gloves to prevent prolonged skin contact.

FOOTWEAR (Specify)

Wear safety footwear.

CLOTHING (Specify)

Wear appropriate coveralls.

OTHER PROTECTIVE EQUIPMENT (Specify)

No other special requirements.

ENGINEERING CONTROLS (Specify)

If dust levels exceed occupational exposure limits, local exhaust ventilation is recommended.

LEAK AND SPILL PROCEDURES

Scoop or sweep up material and place in a suitable container for recycle. If material has entered a water course or stream, advise local authorities.

WASTE DISPOSAL

Salvage spilled material profitably for reuse locally or contact the appropriate local authority for guidance on acceptable waste disposal methods.

HANDLING PROCEDURES AND EQUIPMENT

Use good housecleaning practices to prevent accumulation of dust. Do not consume or inhale dust. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

STORAGE REQUIREMENTS

Store in a cool dry area.

SPECIAL SHIPPING INFORMATION

Not applicable.

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SECTION IX - PREPARATION DATE OF MATERIAL SAFETY DATA SHEET

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PREPARED BY (person, group, department, etc.)

SHERRITT, Industrial Hygiene Department

PHONE NUMBER

(403) 998-6507

DATE

September, 1991

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The buyer assumes all risk in connection with the use of the material. Sheritt Gordon Limited assumes no responsibility or liability in connection with the information supplied on this sheet or for any damage or injury caused by the material if reasonable safety procedures are not followed as stipulated. Sheritt Gordon Limited assumes no responsibility for injury or damage caused by abnormal use of the material even if reasonable safety procedures are followed. The information contained in this sheet is developed from what are believed to be accurate and reliable sources and is based on the best opinions and authoritative facts available at the time of issue.

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ADDITIONAL INFORMATION

"LD50" means the single dose of a substance that, when administered by a defined route in an animal assay, is expected to cause the death of 50 per cent of a defined animal population.

"LC50" means the concentration of a substance in air that, when administered by means of inhalation over a specified length of time in an animal assay, is expected to cause the death of 50 per cent of a defined animal population.

CAS Registry Number means the identification number assigned to a chemical substance by the Chemical Abstracts Service Division of the American Chemical Society.

NA Number means, in respect of a product, material or substance, the product identification number set out in column II in the 9000 series or set out in column II with special provision number 40, 49 or 55 in column IV of List II to the Transportation of Dangerous Goods Regulations.

UN Number means the identification number assigned to a product, material or substance that is listed in Chapter 2 of the Recommendations on the Transport of Dangerous Goods, 4th revised edition, dated 1986, published by the United Nations.

ACGIH means the American Conference of Governmental Industrial Hygienists.

IARC means the International Agency for Research on Cancer.

NIOSH means the U.S. National Institute for Occupational Safety and Health.

NTP means National Toxicology Program.

OSHA CFR means the U.S. Occupational Safety and Health Administration, Federal Register, Part 1910.1200 on Hazard Communication.

TLV-TWA: Threshold Limit Value - Time Weighted Average.

TLV-STEL: Threshold Limit Value - Short Term Exposure Limit.

TLV-C: Threshold Limit Value - Ceiling.

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