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## Safety Data Sheet

**Document Group:** 342480

**Version Number:** 1.00

### SECTION 1: Identification

#### 1.1. Product identifier

Ammonium Sulphate, 20.5-0-0-24

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Fertilizer, Manufacture of specialty fertilizers, Agricultural

#### 1.3. Supplier's details

**Address:** Sherritt  
P.O. Box 3388  
Fort Saskatchewan ALBERTA T8L2T3 CA

**24 hour Emergency- Int'l:** 44 (0)1235-239-670

**E-mail:** sdsinfo@sherritt.com

**24 Hour Emergency Telephone:** 44 (0)1235-239-670

**Telephone:** 001-780-992-7444

##### Emergency telephone number

24 Hour Emergency Telephone 44 (0)1235-239-670

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

Not classified as hazardous according to Canada regulatory guidelines.

#### 2.2. Label elements

##### Signal word:

No signal word.

##### Pictograms:

No pictogram.

##### Hazard statements:

No hazard statements.

##### Precautionary statements:

No precautionary statements.

#### 2.3. Other hazards

None known

### SECTION 3: Composition/information on ingredients

### 3.1 Substances

Name	CAS#	Concentration
Ammonium sulphate	7783-20-2	94.5 - 96.5 %wt/wt
Aluminum sulphate	10043-01-3	2 - 2.5 %wt/wt

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

First aid is normally not anticipated. Seek medical attention if discomfort occurs.

#### Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

#### If Swallowed:

First aid is normally not anticipated. Seek medical attention if discomfort occurs.

### 4.2. Most important symptoms and effects, both acute and delayed

No important symptoms or effects.

### 4.3. Indication of any immediate medical attention and special treatment required

The need to have special means for providing specific and immediate medical treatment available in the workplace is not expected.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

In case of fire: Use dry powder, carbon dioxide or water fog to extinguish.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. Avoid contact with spilled material.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Use wet sweeping compound or water to avoid dusting. Vacuum or sweep up. Seal the container. Clean up residue.

#### 6.4. Reference to other sections

See Section 5 for fire-fighting information. See Section 2 for the hazard identification. See Section 4 for first aid advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

#### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from strong bases. Store in a well-ventilated place. Keep container tightly closed.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Aluminum sulphate	10043-01-3	Alberta OELs	TWA (as soluble salts): 2 mg/m <sup>3</sup>	-
Aluminum sulphate	10043-01-3	Northwest Territories OELs	STEL (as soluble salts): 4 mg/m <sup>3</sup>	-
Aluminum sulphate	10043-01-3	Nunavut OELs	STEL (as soluble salts): 4 mg/m <sup>3</sup>	-
Aluminum sulphate	10043-01-3	Quebec OELs	TWA (as soluble salts): 2 mg/m <sup>3</sup>	-
Aluminum sulphate	10043-01-3	Saskatchewan OELs	STEL (as soluble salts): 4 mg/m <sup>3</sup>	-

ACGIH : American Conference of Governmental Industrial Hygienists

Alberta OELs : Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

British Columbia OELs : British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97)

Manitoba OELs : Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

New Brunswick OELs : New Brunswick OELs (General Regulation (N.B. Reg. 91-191)

Newfoundland and Labrador OELs : Newfoundland and Labrador OELs (Occupational Safety and Health Regulations, 2012 (N.L.R. 5/09))

Northwest Territories OELs : Northwest Territories OELs Occupational Health and Safety Regulations (R-039-2015)

Nova Scotia OELs : Nova Scotia OELs Occupational Health of the Workplace Health and Safety Regulations (N.S. Reg. 52/2013)

Nunavut OELs : Nunavut OELs Occupational Health and Safety Regulations (R-003-2016)

Ontario OELs : Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Prince Edward Island OELs : Prince Edward Island OELs Occupational Health and Safety Act (E.C. 180/87)

Quebec OELs : Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Saskatchewan OELs : Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Yukon OELs : Yukon OELs Occupational Health Regulations (Yukon O.I.C. 1986/164)

TWA: Time-Weighted-Average

CEIL: Ceiling

#### 8.2. Exposure controls

##### 8.2.1. Engineering controls

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Ventilate as needed to control airborne dust. Use explosion proof ventilation equipment if airborne dust levels are high.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

If contact is likely, safety glasses with side shields are recommended.

#### Skin protection

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

#### Hand protection

No protection is ordinarily required under normal conditions of use.

#### Respiratory protection

No special requirements under ordinary conditions of use and with adequate ventilation.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Solid, Granules
Color	White to Off-White
Odor	Odorless
Melting point/Freezing point	235 °C
Boiling point/Initial boiling point/Boiling range	No Data Available
Flammability (solid, gas)	Non-flammable
Flammable Limits (LEL)	No Data Available
Flammable Limits (UEL)	No Data Available
Flash Point	No Data Available
Autoignition temperature	Not Applicable
Decomposition temperature	Not Applicable
pH	4 [Details:(10% aqueous solution)]
Kinematic viscosity	Not Applicable
Solubility	Complete
Partition coefficient: n-octanol/water (log value)	Not Applicable
Vapor pressure	0 [Details:Approximately]
Density and/or relative density	1.7 - 1.8 [Details:(water = 1)]
Relative vapor density	Not Applicable
Particle size	No Data Available
Particle size distribution	No Data Available
Particle shape	No Data Available
Particle aspect ratio	No Data Available
Particle specific surface area	No Data Available

### 9.2. Other Information No Data Available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat, flames and/or ignition sources

### 10.5. Incompatible materials

Strong bases

Strong oxidizing agents

### 10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Oxides of nitrogen	At Elevated Temperatures
Sulfur Oxides	At Elevated Temperatures
Ammonia	At Elevated Temperatures

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Immediate Effects:

##### Inhalation:

Over-exposure to airborne dusts may cause irritation to the upper respiratory system.

##### Skin Contact:

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

##### Eye Contact:

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

##### Ingestion:

No health effects are expected.

Product Name: Ammonium Sulphate, 20.5-0-0-24  
Revision Date:10/12/24 Supercedes Date:Initial Issue  
Page 6 of 9

#### Delayed Effects:

No applicable information is available.

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

Name	Route	Species	Value
Overall product	Oral	-	No data available
Aluminum sulphate	Oral	Rat	> 2,000 mg/kg
Ammonium sulphate	Oral	Rat	LD50 2840 – 4540 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
Overall product	-	No data available

#### Serious Eye Damage/Irritation

Name	Species	Value
Overall product	-	No data available

#### Skin Sensitization

Name	Species	Value
Overall product	-	No data available

#### Respiratory Sensitization

Name	Species	Value
Overall product	-	No data available

#### Germ Cell Mutagenicity

Name	Route	Value
Overall product	-	No data available

#### Carcinogenicity

Name	Route	Species	Value
Overall product	-	-	No data available

#### Reproductive Toxicity

Name	Route	Value	Species	Value	Exposure Duration
Overall product	-	No data available	-	-	-

#### Lactation

Name	Route	Species	Value
Overall product	-	-	No data available

#### Target Organ(s)

Product Name: Ammonium Sulphate, 20.5-0-0-24  
Revision Date:10/12/24 Supercedes Date:Initial Issue  
Page 7 of 9

#### Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Value	Exposure Duration
Overall product	-	NONE	No data available	-	-	-

#### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Value	Exposure Duration
Overall product	-	NONE	No data available	-	-	-

#### Aspiration Hazard:

Name	Value
Overall product	No data available

No other hazards identified.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

## SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

### 12.1. Toxicity

#### Acute aquatic hazard:

This material is not expected to be toxic to aquatic organisms.

#### Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

No component test data available.

### 12.2. Persistence and degradability

No test data available

This product is not, or does not contain, a substance that is a PBT or a vPvB.

### 12.3. Bioaccumulative potential

No test data available

### 12.4. Mobility in soil

Please contact manufacturer for more details

### 12.7 Other adverse effects

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No information available

## **SECTION 13: Disposal considerations**

### **13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements. Dispose of waste product in a permitted industrial waste facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

## **SECTION 14: Transport Information**

**Ground Transportation (DOT) (Bulk):** Not Regulated for Land Transport

**IMO / IMDG:** Not Regulated for Maritime Transport

**ICAO / IATA:** Not Regulated for Air Transport

**TC Shipping Description:** Not Regulated As Dangerous Goods For Transport Under TDG Regulations

## **SECTION 15: Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **NFPA Hazard Classification**

Health: 0

Flammability: 0

Reactivity: 0

#### **HMIS Hazard Classification**

Health: 0

Flammability: 0

Physical Hazards: 0

#### **Complies with the following national/regional chemical inventory requirements:**

AICS, IECSC, DSL, EINECS, ENCS, ISHL, KECI, NZIoC, PICCS, TSCA, TWINV

#### **EPCRA Section 302:**

This material contains no extremely hazardous substances.

#### **SARA (311/312) Reportable Hazard Categories:**

None.

#### **SARA (313) Toxic Release Inventory:**

This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

**The Following Ingredients are Cited on the Lists Below:**



Product Name: Ammonium Sulphate, 20.5-0-0-24  
Revision Date:10/12/24 Supersedes Date:Initial Issue  
Page 9 of 9

Chemical Name	CAS Number	List Citations
Ammonium sulphate	7783-20-2	5, 14
Aluminum sulphate	10043-01-3	5, 11, 14

**--Regulatory Lists Searched--**

1 = ACGIH ALL      4 = OSHA Z      7 = CA P65 REPRO  
2 = ACGIH A1      5 = TSCA 12b      8 = TSCA 6  
3 = ACGIH A2      6 = CA P65 CARC      9 = CA RTK  
10 = California 8 CCR      11 = Massachusetts      12 = Minnesota RTK  
Section 339 Director's RTK  
List of Hazardous  
Substances  
13 = New Jersey RTK      14 = Pennsylvania  
RTK

## SECTION 16: Other information

<b>Document Group:</b>	342480	<b>Version Number:</b>	1.00
<b>Issue Date:</b>	10/12/24	<b>Supersedes Date:</b>	Initial Issue

No revision information

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