### Ammonium Sulfate



#### **Product Description** Section 1

**Product Name:** Ammonium Sulfate

**Recommended Use:** Science education applications Mascagnite, Diammonium Sulfate Synonyms: Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

#### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

#### **GHS Classification:**

Hazardous to the aguatic environment - Acute Category 3, Hazardous to the aguatic environment - Chronic Category 3

#### Section 3 Composition / Information on Ingredients

**Chemical Name** CAS# %\_ Ammonium Sulfate 7783-20-2 100

#### First Aid Measures Section 4

**Emergency and First Aid Procedures** 

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Eves:

Skin Contact: After contact with skin, wash immediately with plenty of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Ingestion:

#### Section 5 Firefighting Procedures

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

**Hazardous Combustion Products:** Nitrogen oxides, Sulfur Oxides

#### Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed. Avoid the generation of dusts during clean-up.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Vacuum or sweep up material and place in a disposal container

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Section 7 Handling and Storage

**Handling:** Avoid release to the environment. Avoid contact with skin and eyes. **Storage:** Keep container tightly closed in a cool, well-ventilated place.

Suitable for any general chemical storage.

Storage Code: Green - general chemical storage

Section 8 Protection Information

ACGIH OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 No data available
 N/A
 N/A
 N/A
 N/A

**Control Parameters** 

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use. Good general room ventilation should be sufficient to control airborne contaminates to safe

levels.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene. Inspect gloves for chemical break-through and replace at regular

intervals. Clean protective equipment regularly.

Gloves: Nitrile

Section 9 Physical Data

Formula: (NH4)2SO4 Vapor Pressure: N/A
Molecular Weight: 132.13 Evaporation Rate (BuAc=1): N/A

Appearance:Crystalline SolidVapor Density (Air=1): N/AOdor:No data availableSpecific Gravity: 1.77 at 20°COdor Threshold:No data availableSolubility in Water: Soluble

pH: 5.0 - 6 at 132 g/l at 25 °C Log Pow (calculated): -5.1 at 25 °C Melting Point: No data available Autoignition Temperature: No data

Melting Point: No data availableAutoignition Temperature: No data availableBoiling Point: No data availableDecomposition Temperature: No data available

Flash Point: No data available

Flammable Limits in Air: N/A N/A

Viscosity: No data available

Percent Volatile by Volume: N/A

Section 10 Reactivity Data

Reactivity: No data available

**Chemical Stability:** Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Strong oxidizing agents, Caustics (bases)

Hazardous Decomposition Products: Sulfur Oxides, Nitrogen oxides

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

**Routes of Entry** Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Respiratory disorders
Delayed Effects: No data available

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**Acute Toxicity:** 

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Ammonium Sulfate7783-20-2Oral LD50 MouseNot determinedNot determined

4280 mg/kg Oral LD50 Rat 4540 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHANo data available7783-20-2Not listedNot listedNot listed

**Chronic Effects:** 

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** No evidence of a sensitization effect.

**Reproductive:** No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: See Section 2

**Chronic:** Not listed as a carcinogen by IARC, NTP or OSHA.

### Section 12 Ecological Data

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. Harmful to

fish and other water organisms.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical Name CAS Number Eco Toxicity

Ammonium Sulfate 7783-20-2 96 HR LC50 BRACHYDANIO RERIO 250 MG/L

96 HR LC50 CYPRINUS CARPIO 18 MG/L

96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L 96 HR LC50 POECILIA RETICULATA 126 MG/L 24 HR EC50 DAPHNIA MAGNA 423 MG/L 48 HR LC50 DAPHNIA MAGNA 14 MG/L

## Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

## Section 14 Transport Information

**Ground - DOT Proper Shipping Name:**Not regulated for transport

Air - IATA Proper Shipping Name:
Not regulated for air transport by IATA.

### Section 15 Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

No data available 7783-20-2 No No No No No No

#### Section 16 Additional Information

Revised: 09/09/2015 Replaces: 09/03/2014 Printed: 10-29-2015

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

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ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

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