

MATERIAL SAFETY DATA SHEET

(513) 860-4949

MSDS No.: AA0325
Effective Date: January 1, 2007

SECTION I		NAME		24 HOUR EMERGENCY ASSISTANCE																	
Product	Ammonium Sulfate			0 1 0 CHEMTREC 800-424-9300 Day 585-226-6177 NFPA HAZARD RATING <table><tr><td>MINIMAL</td><td>SLIGHT</td><td>MODERATE</td><td>SERIOUS</td><td>SEVERE</td></tr><tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td></tr></table>	MINIMAL	SLIGHT	MODERATE	SERIOUS	SEVERE	0	1	2	3	4	<table><tr><td>Health</td><td>2</td></tr><tr><td>Fire</td><td>0</td></tr><tr><td>Reactivity</td><td>1</td></tr></table> HMIS *	Health	2	Fire	0	Reactivity	1
MINIMAL	SLIGHT	MODERATE	SERIOUS		SEVERE																
0	1	2	3		4																
Health	2																				
Fire	0																				
Reactivity	1																				
Chemical Synonyms	Mascagnite; Diammonium Sulfate																				
Formula	(NH ₄) ₂ SO ₄																				
Unit Size	up to 2.5 Kg.																				
C.A.S. No.	7783-20-2																				

SECTION II INGREDIENTS OF MIXTURES		
Principal Component(s)	%	TLV Units
Ammonium sulfate	100%	None established.
WARNING! MAY BE HARMFUL IF SWALLOWED.		
DO NOT BREATHE DUST.		

SECTION III PHYSICAL DATA			
Melting Point (°F)	Decomposes above 280°C (536°F)	Specific Gravity (H ₂ O = 1)	1.769 at 20°C
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	Negligible.
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (= 1)	Not applicable.
Vapor Density (Air=1)	N/A		
Solubility in Water	70.6 grams per 100 mL. water at 0°C.		
Appearance & Odor	Brownish-gray to white crystals; odorless.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA			
Flash Point (Method Used)	Non-combustible.	Flammable Limits in Air % by Volume	N/A
Extinguisher Media	Use any media suitable for extinguishing supporting fire.		

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Noncombustible. Decomposes above 100°C to toxic ammonia gas. Melts and decomposes with emission of a mixture of ammonia and sulfur trioxide at about 455°F. If accidentally mixed with oxidizers like potassium chlorate, potassium nitrate, or potassium nitrite there is an explosion hazard during a fire.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

Threshold Limited Value	None established for this product (ACGIH 2001). RTECS No. BS4500000 Toxicity studies: Oral-rat LD50: 3000 mg/Kg.
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Effects of Overexposure	Inhalation of dusts may be irritating to lungs and mucous membranes. Causes sneezing, mild nosebleed to sensitized persons. Ingestion may cause irritation to digestive tract. May cause skin and eye irritation. Exercise appropriate procedures to minimize potential hazards. Target organs: None known.
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Emergency and First Aid Procedures	INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. EYES: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. SKIN: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
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SECTION VI		REACTIVITY DATA	
Stability	Unstable		Conditions to Avoid Excessive temperature and heat.
	Stable	X	
Incompatibility (Materials to Avoid)		Strong oxidizers (Potassium chlorate, Potassium nitrate, Potassium nitrite).	
Hazardous Decomposition Products		Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide, nitrogen oxides, sulfur oxides, ammonia.	
Hazardous Polymerization		Conditions to Avoid	
May Occur	Will Not Occur	Not applicable.	
	X		

SECTION VII SPILL OR LEAK PROCEDURES	
Steps to be taken in case material is released or spilled	Wear protective equipment and use adequate ventilation. Recover for use if not contaminated. Avoid creating dust. Sweep up spill and place in a suitable container for proper disposal. Wash spill area with soap and water.

Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.
	For small spills, dissolve in water and flush to sewer with copious amounts of water. For large spills, dispose of in accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION			
Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions exist work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.		
Ventilation	Local Exhaust	Recommended.	Special
	Mechanical (General)	Recommended.	Other
			No.

Protective Gloves		Eye Protection	
Other Protective Equipment	Goggles, lab coat, proper gloves, eye wash station, ventilation hood.		

SECTION IX SPECIAL PRECAUTIONS	
Precautions to be Taken in Handling & Storing	Store in a cool, dry place. Keep container tightly closed when not in use. Wash thoroughly after handling.

Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
	Avoid breathing dust. Use with adequate ventilation. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing.

Revision No. 8	Date 01/01/07	Approved James A. Bertsch	Chemical Safety Coordinator JAB
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