



MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION

Manufacturer: Vertellus Health & Specialty Products LLC
300 North Meridian Street, Suite 1500
Indianapolis, Indiana 46204

Information and Emergency Phone during business hours: 800-344-3426

For use only in the event of chemical emergencies involving
a spill, leak, fire, or accident with this material:
Call CHEMTREC 800 424-9300

Trade Name.....: Ammonium sulfate
Chemical Name.....: Diammonium salt of sulfuric acid
Synonyms.....: Diammonium sulfate
.....:
.....:
CAS #.....: 7783-20-2
Chemical Family.....: Ammonium salt
Product Code.....: AMSULFATE
Product Use.....: N/A
PIN#.....: None
WHMIS Class.....: D2B

SECTION 2. COMPOSITION/INFORMATION ON COMPONENTS

COMPONENTS	CAS #	WEIGHT %
Ammonium Sulfate	7783-20-2	99%

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview:

White to colorless crystals. Irritating to eyes, nose and throat.

Breathing:

Dusts may cause irritation, coughing or difficult breathing.

Skin Contact:

May cause skin irritation.

Eye Contact:

Can cause eye irritation.

Swallowing:

May cause irritation, nausea, vomiting and diarrhea.

Long Term Health Effects:

Not known.

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SECTION 3. HAZARDS IDENTIFICATION

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Conditions Aggravated By Exposure:

Not known.

SECTION 4. FIRST AID MEASURES

Breathing:

Remove to fresh air. If not breathing, give artificial respiration.
If breathing is difficult, give oxygen. Seek medical attention.

Skin:

Wash with soap and water. Get medical attention if irritation
develops or persists.

Eye:

Immediately flush eyes with plenty of water for at least 15
minutes, holding eyelids apart. Get medical attention if
irritation or other symptoms occur.

Swallowing:

Get immediate medical attention. Never give anything by mouth to
an unconscious person.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point.....	N/A	N/A
Method.....	N/A	
Lower Explosive Limit.....	N/A	
Upper Explosive Limit.....	N/A	
Auto Ignition Temperature....	N/A	
Extinguishing Media.....	CO2,dry chemical,alcohol foam,water spray	

Firefighting Procedures:

Material will not burn. Evacuate area and fight fire from safe distance.
Use extinguishing media for surrounding materials. Wear pressure-demand
self-contained breathing apparatus (MSHA/NIOSH-approved or equivalent)
and full protective gear.

Unusual Fire and Explosion Hazards:

May generate ammonium gas, sulfuric dioxide or trioxide gases if
involved in a fire.

Sensitivity To Explosion:

None expected by mechanical impact or static discharge

Conditions Of Flammability:

Decomposes as 535 deg F.

SECTION 6. ACCIDENTAL RELEASE MEASURES

General:

Minimize entry of material into sewers and drainage systems. Refer to permit discharge limitations if applicable. Isolate spill area, preventing entry by unauthorized persons. Prevent skin/eye contact.

Small Spill:

Sweep or scoop material into a chemical waste container. Avoid raising dust. Scrub area with detergent and water.

Large Spill:

Shut off spill if safe to do so. Clean up spills immediately, observing precautions in Protective Equipment section. Vacuum or sweep up material and place in a disposal container.

SECTION 7. HANDLING AND STORAGE

Handling:

Use with adequate ventilation. Avoid contact with skin and eyes. Wash thoroughly after handling. Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

Storage:

Keep container closed when not in use.

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Levels:

None established.

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to control sources of dust, mist or vapor.

Respiratory Protection:

Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use a positive pressure air supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respiratory protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

Eye/Face Protection:

Use safety glasses. Where contact with the eyes is likely, use chemical goggles. Use a face shield as needed.

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SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION ... continued

Skin Protection:

Use impervious gloves. Use clean protective body-covering clothing as needed to minimize contact with clothing and skin.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance.....	:	White to colorless crystals	
Odor.....	:	Odorless	
Initial Boiling Point.....	:	N/A	N/A
Final Boiling Point.....	:	N/A	N/A
Specific Gravity (Relative to Water).....	:	1.77 @ 77 F	
Vapor Density (relative to air).....	:	N/A	
Vapor Pressure (mm Hg).....	:	N/A	
pH.....	:	N/A	
Solubility in Water.....	:	Very soluble	
Freezing/Melting Point.....	:	N/A	
Octanol/water Partition Coefficient.....	:	N/A	
Odor Threshold.....	:	N/A	
Viscosity.....	:	N/A	
Evaporation Rate (relative to n-Butylacetate)	:	N/A	

SECTION 10. STABILITY AND REACTIVITY

Stable:

Yes.

Strong Oxidizer:

No.

Hazardous Polymerization:

Not prone to hazardous polymerization.

Incompatibility:

Reaction with sodium hypochlorite gives the unstable explosive nitrogen trichloride. Reaction with oxidizers like potassium chlorate, potassium nitrite, or potassium nitrate may present an explosion hazard in a fire.

Conditions to Avoid:

Contact with incompatible materials.

Hazardous Decomposition Products:

When heated to decomposition this material releases toxic fumes of NO_x, SO_x, and Ammonia.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicology:
Ammonium Sulfate (CAS# 7783-20-2);
Oral LD50, rat; 2840 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicological Information:
Mosquito fish TLM; 1,290 ppm/96-hr
Daphnia magna TLM; 292 ppm/96-hr

Chemical Fate:
Not available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal:
Dispose of in accordance with all federal, state, and local regulations.

Container Disposal:
Dispose of in accordance with all federal, state, and local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Shipping Name... : Not Regulated
Hazard Class..... :
Packing Group..... :
UN/NA No. :
DOT Labels..... :
Subsidiary Label.... :
DOT Placards..... :

IMO Shipping Name... : Not Regulated
Hazard Class..... :
Packing Group..... :
UN No. :
IMO Labels..... :
Subsidiary Label.... :

IATA Shipping Name... : Not Regulated
Hazard Class..... :
Packing Group..... :
UN No. :
IATA Labels..... :
Subsidiary Label.... :

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Chronic Health Hazard : no
 SARA 311/312 Acute Health Hazard.. : yes
 SARA 311/312 Fire Hazard..... : no
 SARA 311/312 Sudden Pressure..... : no
 SARA 311/312 Reactivity Hazard.... : no

Section 302 Extremely Hazardous:

Ingredients	CAS #	Weight %	TPQ
** None **			

CERCLA Hazardous Substances:

Ingredients	CAS #	Weight %	RQ
** None **			

Section 313 Toxic Chemicals:

Ingredients	CAS #	Weight %
** None **		

NJ Environmental Hazardous Substance List:

Ingredients	CAS #
** None **	

California Proposition 65 Ingredients:

Ingredients	CAS #	Weight %
** None **		

TSCA:

This substance is listed on the TSCA inventory.

DSL/EINECS:

This substance is listed on the Canadian Domestic Substances List
& the European Inventory of Existing Commercial Chemical Substances

WHMIS:

This MSDS was prepared in accordance with Canadian Controlled
Product Regulations. This product meets hazard class criterion D2B.

SECTION 16. OTHER INFORMATION

NFPA Hazard Ratings:
 Health..... : 2
 Fire..... : 0
 Reactivity..... : 0
 Specific Hazard.... : None

HMIS Hazard Rating:
 Health..... : 2
 Fire..... : 0
 Reactivity..... : 0

MSDS Revisions:

06/10/99; Added regulatory information (sect 15)
 07/26/02; Periodic review - no change in hazard assessment

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SECTION 16. OTHER INFORMATION

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NOTE:

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