

# MATERIAL SAFETY DATA SHEET

Ferrous Ammonium Sulfate

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Ferrous Ammonium Sulfate  
Product Code: F3002  
Material Uses:  
Manufacturer: Science Stuff  
1104 Newport Ave  
Austin, TX 78753  
(512) 837-6020  
Entry Date : 6/4/2013  
Print Date: 6/4/2013  
24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	2			
Flammability:	0			
Reactivity:	0			
Hazard Rating:				
Least	Slight	Moderate	High	Extreme
0	1	2	3	4
NA=Not Applicable		NE=Not Established		

## SECTION 2 HAZARD IDENTIFICATION

Harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Physical State and Appearance:  
Solid. (Crystal solid)

Emergency Overview:  
CAUTION!  
CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
MAY BE HARMFUL IF INHALED OR SWALLOWED.

Routes of entry:  
Inhalation. Ingestion.

Potential Acute Health Effects  
Eyes: Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.  
Skin: Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.  
Inhalation: Hazardous in case of inhalation (lung irritant). May be hazardous in case of inhalation.  
Ingestion: May be hazardous in case of ingestion.

Potential Chronic Health Effects

Carcinogenic Effects: This material is not known to cause cancer in animals or humans.

Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Ferrous Ammonium Sulfate	CAS# 7783-85-9	100%	W/W	None Established

## SECTION 4 FIRST AID MEASURES

## Ferrous Ammonium Sulfate

Harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

### SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire

Fire / Explosion Hazards: Negligible fire hazard when exposed to heat or flame

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

Small Spill and Leak:

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill and Leak:

Use a shovel to put the material into a convenient waste disposal container.

Spill Kit Information:

No specific spill kit required for this product.

### SECTION 7 HANDLING AND STORAGE

Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA-approved respirator

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Wear appropriate gloves to prevent skin exposure

Eye Protection: Goggles and Face Shield

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

## Ferrous Ammonium Sulfate

Eyes: Splash goggles.

Body: Lab coat.

Respiratory: Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands: Gloves.

Feet: Not applicable

Personal Protective in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.

Suggested protective clothing might be sufficient; consult a specialist BEFORE handling this product.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	100° C	Percent Volatile by Volume:	N/A
Boiling Point:	N/A	Evaporation Rate	N/A
Vapor Pressure:	N/A	Evaporation Standard	
Vapor Density:	N/A	Auto Ignition Temp	Not applicable
Solubility in Water:	soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	Pale blue-green crystals or crystalline powder	Upper Flamm. Limit in Air	Not applicable
Flash Point:	N/A		
Specific Gravity:	1.864		

### SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability:	Stable
Conditions to Avoid:	Avoid contact with incompatible materials.
Materials to Avoid:	Halides, anhydrides, chlorides, carbonates
Hazardous Decomposition Products:	Nitric oxide and ammonia fumes
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

### SECTION 11 Toxicological Information

RTECS #: Ferrous Ammonium Sulfate, Hexahydrate, GR

Toxicity: Acute oral toxicity (LD50): 3250 mg/kg [Rat]

Chronic Effects on Humans: Not available

Acute Effects on Humans: Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Hazardous in case of inhalation (lung irritant). May be hazardous in case of inhalation. May be hazardous in case of ingestion.

### SECTION 12 Ecological Information

Ecotoxicity: Not available

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BOD5 and COD: Not available

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

### SECTION 13 Disposal Considerations

EPA Waste #: Not available

Treatment: Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitter waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

### SECTION 14 Transport Information

DOT Classification: Not Regulated

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

### SECTION 15 Regulatory Information

U.S. Federal Regulations

TSCA 8(b) inventory: Ferrous Ammonium Sulfate  
SARA 302/304/311/312 extremely hazardous substance: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: Ferrous Ammonium Sulfate  
SARA 311/312 MSDS distribution - Chemical inventory - hazard identification: Ferrous Ammonium Sulfate: Immediate (Acute) Health Hazard  
SARA 313 toxic chemical notification and release reporting: No products were found.  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean air act (CAA) 112 accidental release prevention: No products were found.  
Clean air act (CAA) 112 regulated flammable substances: No products were found.  
Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada):

Class D-2B: Material causing other toxic effects (TOXIC)  
No products were found.

This product has been classified in accordance with the hazard criteria of the controlled Product Regulations and the MSDS contains all required information.

State Regulations: No products were found.  
California prop. 65: No products were found.

### SECTION 16 Additional Information

Ferrous Ammonium Sulfate
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Flammability

Health

Reactivity

**Revisions**

**NFPA**

0.1
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