

# SAFETY DATA SHEET

Creation Date 14-Oct-2009

Revision Date 13-Mar-2014

**Revision Number** 1

1. Identification

Product Name	Ammonium iron (II) sulfate hexahydrate
Cat No. :	C3900, C3901
Synonyms	Ferrous ammonium sulfate; Mohr`s salt Laboratory
Recommended Use	chemicals
Uses advised against	No Information available
Details of the supplier of the safety d	ata sheet

**Company** Lab Alley, LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 Tel: 512-668-9918

2. Hazard(s) identification

### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation
Serious Eye Damage/Eye Irritation
Specific target organ toxicity (single exposure)
Target Organs - Respiratory system.

Category 2 Category 2 Category 3

#### Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



### **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention.

#### Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None identified

## 3. Composition / information on ingredients

#### Haz/Non-haz

Component	CAS-No	Weight %
Ferrous ammonium sulfate.6H2O	7783-85-9	>95

### 4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.
Ingestion	Do not induce vomiting. Obtain medical attention.
Most important symptoms/effects	No information available
Notes to Physician	Treat symptomatically.

## 5. Fire-fighting measures

Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire
Unsuitable Extinguishing Media	No information available.
Flash Point Method -	Not applicable No information available.

Autoignition Temperature Explosion Limits	No information available.
Upper Lower	No data available No data available
Sensitivity to mechanical impact	No information available.
Sensitivity to static discharge	No information available.

#### **Specific Hazards Arising from the Chemical**

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products Nitrogen oxides (NOx), Sulfur oxides, Heavy metal oxides.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 2	<b>Flammability</b> 0	Instability 1	Physical hazards N/A
	6. Accidental rele	ase measures	
Personal Precautions	Ensure adequate ventilation.	Jse personal protective equip	oment. Avoid dust formation.
Environmental Precautions	Avoid release to the environm	ent.	
Methods for Containment and Clean Up	Sweep up or vacuum up spilla formation.	ge and collect in suitable cor	tainer for disposal. Avoid dust
	7. Handling ar	nd storage	
Handling	Wear personal protective equi or on clothing. Avoid ingestion	• • •	tilation. Do not get in eyes, on skin, ormation.
Storage	Keep containers tightly closed	in a dry, cool and well-ventila	ated place. Protect from light.

## 8. Exposure controls / personal protection

#### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ferrous ammonium sulfate.6H2O	TWA: 1 mg/m <sup>3</sup>	(Vacated) TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Ferrous ammonium sulfate.6H2O	TWA: 1.0 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	
	-	STEL: 2 mg/m <sup>3</sup>	

#### Legend

**ACGIH** - American Conference of Industrial Hygiene **OSHA** - Occupational Safety and Health Administration **NIOSH IDLH:** Immediately Dangerous to Life or Health

**Engineering Measures** 

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

#### **Personal Protective Equipment**

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

## 9. Physical and chemical properties

Solid

**Physical State** Appearance Odor **Odor Threshold** pН **Melting Point/Range** Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Relative Density** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition temperature** Viscosity Molecular Formula **Molecular Weight** 

Light green odorless No information available. 3 - 5 (5 % Solution) 100°C / 212°F No information available. No information available. No information available. No data available No data available No information available. No information available. No information available.

No information available. No information available. Partly soluble in water No data available No information available. 100 °C No information available. Fe H8 N2 O8 S2 . 6 H2 O 392.14

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available.
Stability	Stable under normal conditions. Light sensitive. Air sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to air. Exposure to light. Temperatures above 100°C.
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases
Hazardous Decomposition Products	Nitrogen oxides (NOx), Sulfur oxides, Heavy metal oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

## 11. Toxicological information

### **Acute Toxicity**

### **Product Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ferrous ammonium sulfate.6H2O	3250 mg/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic Products	No information available.		
Delayed and immediate effects as	s well as chronic effects from sho	rt and long-term exposure	
Delayed and immediate effects as Irritation	s well as chronic effects from sholl Irritating to eyes, respiratory sy	<u> </u>	
		<u> </u>	

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Ferrous ammonium sulfate.6H2O	7783-85-9	Not listed				

Mutagenic Effects	No information available.
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure	Respiratory system.
STOT - repeated exposure	None known.
Aspiration hazard	No information available.
Symptoms / effects, both acute and delayed	No information available.
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated

12. Ec	ological information

### Ecotoxicity

Do not empty into drains.

Persistence and Degradability	No information available.
<b>Bioaccumulation/ Accumulation</b>	No information available
Mobility	No information available

## 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information					
DOT	Not regulated				
TDG	Not regulated				
IATA	Not regulated				
IMDG/IMO	Not regulated				

## 15. Regulatory information

### **International Inventories**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Ferrous ammonium sulfate.6H2O	-	-	-	-	-		Х	Х	Х	Х	-

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

Yes No No No No

#### U.S. Federal Regulations

TSCA 12(b)	Not applicable
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SARA 311/312 Hazardous Categorization	
Acute Health Hazard	
Chronic Health Hazard	
Fire Hazard	
Sudden Release of Pressure Hazard	
Reactive Hazard	

Clean Water Act	Not applicable

Clean Air Act Not applicable

**OSHA** Occupational Safety and Health Administration **OSHA** - Occupational Safety and Health Administration

CERCLA Not Applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals.

### State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ferrous ammonium sulfate.6H2O	-	-	Х	-	Х

#### U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	N

#### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

#### **Other International Regulations**

Mexico - Grade

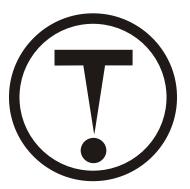
No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2B Toxic materials



## 16. Other information

Creation Date	14-Oct-2009
Revision Date	13-Mar-2014
Print Date	13-Mar-2014
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

