

9715			
	Section 1 - Chemical Product and Company Identification		
Iron(II) ammonium sulfate hexahydrate			
AC201375000, A	AC201370010, AC201370050, AC201370250, AC201370251, AC201375000 AC318300000, AC423720000, AC423720030, AC423721000, AC423725000 77-212, I77-500		
: Ferrous ammonium	n sulfate hexahydrate; Ammonium iron(2+) sulfate hexahydrate; Mohr's salt.		
Identification:	Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410		
ation in the US, call:	201-796-7100		
y Number US:	201-796-7100		
EC Phone Number, U	IS: 800-424-9300		
	Section 2 - Composition, Information on Ingredients		
	7783-85-9		
me:	Iron(II) ammonium sulfate hexahydrate		
	>98.5		
	unlisted		
Hazard Symbols:	XI		
*			
Risk Phrases:	36/37/38		
	Section 3 - Hazards Identification		
	EMERGENCY OVERVIEW		
rning! Light sensitive.	Air sensitive. Causes eye, skin, and respiratory tract irritation. Target Organs: Liver, cardiovascular system.		
Iealth Effects			
Causes eye irritation.			
Causes skin irritation.			
May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause cardiac disturbances.			
Causes respiratory tract irritation.			
Chronic exposure ma	y cause liver damage.		
	Section 4 - First Aid Measures		
Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.			
kin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. medical aid if irritation develops or persists. Wash clothing before reuse.			
	Iron(II) ammonium AC201370000, A AC201375000, A AC423725000, If : Ferrous ammonium Identification: ation in the US, call: y Number US: EC Phone Number, U 		

Get

Ingestion:	Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water. Get medical aid if irritation or symptoms occur.				
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.				
Notes to Physician:	Treat symptomatically and supportively.				
Section 5 - Fire Fighting Measures					
General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.				
Extinguishing Media:	Use extinguishing media most appropriate for the surrounding fire.				
Autoignition Temperature:					
Flash Point: Not applicable.					
Explosion Limits: Lower:					
Explosion Limits: Upper: Not available					
NFPA Rating: health: 2; flammability: 0; instability: 0;					
Section 6 - Accidental Release Measures					
General Information:	Use proper personal protective equipment as indicated in Section 8.				
Spills/Leaks:	Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.				

Section 7 - Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate Handling: ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from light.

Chemical Name		+   NIOSH	++  OSHA - Final PELs
Iron(II) ammonium s    ulfate hexahydrate     	1 mg/m3 TWA (as   Fe) (listed     under Iron salts  (soluble)).	Fe) (listed	
Ferrous ammonium su    lfate anhydrous   	1 mg/m3 TWA (as   Fe) (listed     under Iron salts	1 mg/m3 TWA (as Fe) (listed	1

Section 8 - Exposure Controls, Personal Protection

OSHA Vacated PELs: Iron(II) ammonium sulfate hexahydrate: 1 mg/m3 TWA (as Fe) (listed under Iron salts (soluble)) Ferrous ammonium sulfate anhydrous: 1 mg/m3 TWA (as Fe) (listed under Iron salts (soluble))

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Exposure** Limits

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face

Eyes: protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or Respirators: European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. Section 9 - Physical and Chemical Properties Physical State: Crystals Color: light green Odor: odorless pH: 3-5 (5% aq soln) Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not available Viscosity: Not available Boiling Point: Not available Freezing/Melting Point: 100 deg C (dec) Decomposition Temperature: Solubility in water: 269 g/l @ 20°C Specific Gravity/Density: 1.865 Molecular Formula: FeH8N2O8S2 x 6H2O Molecular Weight: 392.13 Section 10 - Stability and Reactivity Stable at room temperature in closed containers under normal storage and handling conditions. Chemical Stability: Slowly oxidized by atmospheric oxygen. Deliquescent (tending to absorb atmospheric water vapor and become liquid). Slowly effloresces (loses water molecules of hydration) on exposure to air. Light, dust generation, excess heat, prolonged exposure to air. Conditions to Avoid: Incompatibilities with Strong oxidizing agents, strong acids. Other Materials Hazardous Decomposition Oxides of sulfur, nitrogen oxides (NOx) and ammonia (NH3), oxides of iron. Products Hazardous Has not been reported. Polymerization Section 11 - Toxicological Information CAS# 7783-85-9: BR6500000 RTECS#: CAS# 10045-89-3: WS5890000 RTECS: CAS# 7783-85-9: Oral, rat: LD50 = 3250 mg/kg; LD50/LC50: **RTECS**: CAS# 10045-89-3:. Iron(II) ammonium sulfate hexahydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. Carcinogenicity: Ferrous ammonium sulfate anhydrous - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. Other: See actual entry in RTECS for complete information. Section 12 - Ecological Information Not available Section 13 - Disposal Considerations Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT Shipping Name: Not Regulated Hazard Class: UN Number: Packing Group: Canada TDG Shipping Name: Not regulated as a hazardous material Hazard Class: UN Number: Packing Group:

USA RQ: CAS# 10045-89-3: 1000 lb final RQ; 454 kg final RQ

Section 15 - Regulatory Information

# European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

#### Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 7783-85-9: Not available

CAS# 10045-89-3: 1

### Canada

CAS# 10045-89-3 is listed on Canada's DSL List

Canadian WHMIS Classifications: D2B

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

CAS# 7783-85-9 is not listed on Canada's Ingredient Disclosure List.

CAS# 10045-89-3 is not listed on Canada's Ingredient Disclosure List.

## US Federal

## TSCA

CAS# 7783-85-9 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form in on the Inventory (40CFR720.3(u)(2)). CAS# 10045-89-3 is listed on the TSCA Inventory.

Section 16 - Other Information MSDS Creation Date: 9/02/1997 Revision #9 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.