



MATERIAL SAFETY DATA SHEET
Ammonium iron(II) sulfate 0.025M and 0.1M

Section 1 - Chemical Product and Company Identification

MSDS Name: Ammonium iron(II) sulfate 0.025M and 0.1M
Catalog Numbers: J/1100/17, J/1101/15, J/1101/17, J/1101/24, J/1101/PB17
Synonyms: Ferrous ammonium sulfate solution; Mohr's Salt.
Company Identification: Fisher Scientific UK
 Bishop Meadow Road, Loughborough
 Leics. LE11 5RG
For information in Europe, call: (01509) 231166
Emergency Number, Europe: 01509 231166

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#	Hazard Symbols:	Risk Phrases:
7732-18-5	Water	>95	231-791-2		
7783-85-9	Ammonium iron(II) sulfate hexahydrate	<5	unlisted		

Text for R-phrases: see Section 16

Hazard Symbols: None listed

Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Not available

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxic effects on the heart, liver, and kidneys. The toxicological properties of this substance have not been fully investigated.

Inhalation: The toxicological properties of this substance have not been fully investigated.

Chronic: Prolonged or repeated skin contact may cause dermatitis.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

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:

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.

Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up, then place into a suitable container for disposal.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

CAS# 7732-18-5:

CAS# 7783-85-9:

Belgium - TWA: (iron salts (soluble)): 1 mg/m³ VLE (as Fe)

Malaysia: (iron salts (soluble)): 1 mg/m³ TWA (as Fe)

Netherlands: (iron salts (soluble)): 0.1 mg/m³ MAC (as Fe)

Spain: (iron salts (soluble)): 1 mg/m³ VLA-ED (as Fe)

CAS# 10045-89-3:

Belgium - TWA: (iron salts (soluble)): 1 mg/m³ VLE (as Fe)

Malaysia: (iron salts (soluble)): 1 mg/m³ TWA (as Fe)

Netherlands: (iron salts (soluble)): 0.1 mg/m³ MAC (as Fe)

Spain: (iron salts (soluble)): 1 mg/m³ VLA-ED (as Fe)

Personal Protective Equipment

Eyes: 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: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: 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.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: not available
Odor: None reported.
pH: Not available
Vapor Pressure: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: Not available
Autoignition Temperature: Not available.
Flash Point: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: Soluble in water.
Specific Gravity/Density: Not available.
Molecular Formula: Solution
Molecular Weight: Not available.

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: None reported.
Incompatibilities with Other Materials Not available
Hazardous Decomposition Products Oxides of nitrogen, oxides of sulfur, ammonia and/or derivatives.
Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 7732-18-5: ZC0110000
CAS# 7783-85-9: BR6500000
CAS# 10045-89-3: WS5890000

LD50/LC50: RTECS:
CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg;
. RTECS:
CAS# 7783-85-9: Oral, rat: LD50 = 3250 mg/kg;
. RTECS:
CAS# 10045-89-3:.

Carcinogenicity: Water - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Ammonium iron(II) sulfate hexahydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
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

Other: No information available.

Section 13 - Disposal Considerations

Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local authority or advice. Empty containers must be decontaminated before returning for recycling.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Not regulated.	Not regulated.	Not regulated.
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: Not available

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 7732-18-5: Not available

CAS# 7783-85-9: Not available

CAS# 10045-89-3: 1

Canada

CAS# 7732-18-5 is listed on Canada's DSL List

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

US Federal

TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.

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 is on the Inventory (40CFR720.3(u)(2)).

CAS# 10045-89-3 is listed on the TSCA Inventory.

Section 16 - Other Information

Text for R-phrases from Section 2

MSDS Creation Date: 5/05/1998

Revision #4 Date 6/22/2006

Revisions were made in Sections: 3, 14

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