

SAFETY DATA SHEET

Creation Date 14-October-2009

Revision Date 17-January-2018

Revision Number 3

1. Identification Ammonium iron (II) sulfate hexahydrate

Product Name

177-212; 177-500

CAS-No Synonyms

Cat No. :

7783-85-9 Ferrous ammonium sulfate; Mohr`s salt

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company Importer/Distributor Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6, Canada Tel: 1-800-234-7437

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

WHMIS 2015 Classification

Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Manufacturer

Fisher Scientific

One Reagent Lane Fair Lawn, NJ 07410

Tel: (201) 796-7100

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

Avoid breathing dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Use only outdoors or in a well-ventilated area Wear protective gloves/protective clothing/eye protection/face protection Response IF ON SKIN: Wash with plenty of soap and water IF INHALED: Remove person to fresh air and keep comfortable for breathing IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Call a POISON CENTER/ doctor if you feel unwell Take off contaminated clothing 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

Other Hazards

Light sensitive

3. Composition/Information on Ingredients

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. Get medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.	
Inhalation	Move to fresh air. Obtain medical attention. If not breathing, give artificial respiration.	
Ingestion	Do not induce vomiting. Obtain medical attention.	
Most important symptoms/effects Notes to Physician	No information available. 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	Not applicable
Method -	No information available

Autoignition Temperature

Explosion Limits	
Upper	No data available
Lower	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.

Ν	F	Ρ	Α	

Health 2	Flammability 0	Instability 1	Physical hazards N/A
	6. Accidental re	elease measures	
Personal Precautions Environmental Precautions	Avoid release to the envir	on. Use personal protective equi onment. Should not be released nate ground water system. Do no	into the environment. Do not
Methods for Containment and Clea Up	an Sweep up or vacuum up s formation.	spillage and collect in suitable co	ntainer for disposal. Avoid dust
	7. Handling	and storage	
Handling		equipment. Ensure adequate ve I ingestion and inhalation. Avoid	

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light. Store under an inert atmosphere.

8. Exposure controls / personal protection

Exposure Guidelines

Component	Alberta	British Columbia	Ontario TWAEV	Quebec	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ferrous ammonium sulfate.6H2O	TWA: 1 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³		TWA: 1.0 mg/m ³	TWA: 1 mg/m ³	(Vacated) TWA: 1 mg/m ³	TWA: 1 mg/m ³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health 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.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection

Goggles

Hand Protection	Wear appropriate protective	e gloves and clothing to preven	t skin exposure.
Glove material Natural rubber Nitrile rubber Neoprene PVC	Breakthrough time See manufacturers recommendations	Glove thickness -	Glove comments Splash protection only

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

No protective equipment is needed under normal use conditions.

Environmental exposure controls

No information available.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

9. Ph	ysical and chemical properties
Physical State	Solid
Appearance	Light green
Odor	Odorless
Odor Threshold	No information available
рН	3,5 (5%)
Melting Point/Range	100 °C / 212 °F
Boiling Point/Range	No information available
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Partly soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	100 °C
Viscosity	Not applicable
Molecular Formula	H8 Fe N2 O8 S2 . 6 H2 O
Molecular Weight	392.14
	10. Stability and reactivity
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Reactive Hazard	None known, based on information available
Stability	Light sensitive. Air sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to air. Exposure to light. Temperatures above 100°C.

Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Decomposition Products	Nitrogen oxides (NOx), Sulfur oxides, Heavy metal oxides
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases

11. Toxicological information

Acute Toxicity

Product Information Component Information

component information					
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Ferrous ammonium sulfate.6H2O	LD50 = 3250 mg/kg (Rat)	Not listed	Not listed		
Toxicologically Synergistic Products	No information available				

Irritating to eyes, respiratory system and skin

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

No information available

Carcinogenicity

Sensitization

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico				
Ferrous ammonium sulfate.6H2O	7783-85-9	Not listed	Not listed	Not listed	Not listed	Not listed				
Mutagenic Effects	Mutagenic Effects		No information available							
Reproductive Effect	ts	No information available.								
Developmental Effe	cts	No information available.								
Teratogenicity		No information available.								
STOT - single exposision STOT - repeated ex		Respiratory system None known								
Aspiration hazard		No information available								
Symptoms / effects delayed	s,both acute and	d No information available								
Endocrine Disrupto	r Information	No information available								
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.								

12. Ecological information

Ecotoxicity

Do not empty into drains. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability	based on information available. May persist
Bioaccumulation/ Accumulation	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.

	13. Disposal considerations			
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified 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			
DOT TDG IATA	Not regulated			
	Not regulated			
IMDG/IMO	Not regulated			
	15. Regulatory information			

International Inventories

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

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

	16. Other information
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	14-October-2009
Revision Date	17-January-2018
Print Date	17-January-2018
Revision Summary	This document has been updated to comply with the requirements of WHMIS 2015 to align with the Globally Harmonised System (GHS) for the Classification and Labelling of Chemicals.

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS