

Issuing Date 2/28/2011	Revision Number 0			
1. P	RODUCT AND COMPANY IDENTIFICATION			
Product Name	Sulfide Reagent B			
Product Code(s)	4459			
Recommended Use	Laboratory chemicals. Industrial (not for food or food contact use). Test kit reagent.			
Company	LaMotte Company, Inc. 802 Washington Avenue P.O. Box 329 Chestertown, MD 21620 USA			
Emergency Telephone Number	24 Hour Emergency Number (CHEM-TEL): USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585			
2. HAZARDS IDENTIFICATION				
	WARNING!			
	Emergency Overview Corrosive			
Can	cause severe irritation or burns to every area of contact Harmful if swallowed			
	May cause adverse liver effects			
Appearance Dark amber	Physical State Liquid Odor Slight, Acidic			
OSHA Regulatory Status	Safety information is given for exposure to the reagent as sold and considers exposure to the chemical if user has direct eye and skin contact.			
Potential Health Effects Principle Routes of Exposure	Ingestion, Skin contact, Eye contact			
Acute Toxicity				
Eyes	Corrosive. Contact with eyes causes severe irritation. Causes irritation, redness, and pain.			
Skin	May cause burns. Corrosive. Contact causes severe skin irritation and possible burns. Symptoms can include			
Inhalation	redness, itching, and pain. Can be extremely destructive to tissues of the mucous membranes and upper respiratory tract. Can cause burning sensation, coughing, wheezing, laryngitis, shortness of breath,			

Ingestion

Chronic Effects

May cause adverse liver effects.

headache, nausea and vomiting.

3. COMPOSITION/INFORMATION ON INGREDIENTS

nausea, vomiting, and diarrhea, and in severe cases death.

Chemical Name	CAS-No	Weight %
Iron (III) chloride hexahydrate	10025-77-1	25
Water	7732-18-5	to 100

Corrosive. Can burn mouth, throat, stomach, and GI tract. Harmful if swallowed. May cause

	4	. FIRST AID MEA	SURES	
General Advice	Do not ge	t in eyes, on skin, or on	clothing.	
Eye Contact			e stream of water for at le ek immediate medical at	east 15 minutes, occasionally tention/advice.
Skin Contact			nd plenty of water for at l es. Seek immediate med	east 15 minutes while removing ical attention/advice.
Inhalation			ifficult, give oxygen. If no y personnel. Call a physic	
Ingestion			ink large quantity of wate hing by mouth to an unco	r. Clean mouth with water. Get onscious person.
Protection of First-aiders	Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to- mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.			
	5. FI	RE-FIGHTING M	EASURES	
Flash Point		Not app	licable	
Suitable Extinguishing Media	Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO ₂ , water spray or alcohol-resistant foam.			
Explosion Data NFPA Health	Hazard 2	Flammability 0	Stability 0	Physical and Chemical Hazards
	6. ACCI	DENTAL RELEAS	E MEASURES	
Personal Precautions		lequate ventilation. Use ith skin, eyes and inhala		oment. Refer to Section 8. Avoi
Methods for Cleaning Up	with large rinse to dr	volume of water, neutra	lize with alkaline materia Gep in suitable and close	al regulations permit, dissolve I (sodium bicarbonate), then ed containers for disposal. After
	7. ⊢	IANDLING AND	STORAGE	
Handling				ety practice. Prevent contact wi r smoke when using this produc
Storage	temperatu			ilated place. Store at room rom heat and incompatibles.
8 FX	POSLIRE (SONAL PROTEC	TION

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Iron (III) chloride hexahydrate 10025-77-1	TWA: 1 mg/m ³	None Known	TWA: 1 mg/m ³

Water 7732-18-5	None Known	None Known	None Known			
Personal Protective Equipme	ent					
Eye/Face Protection	Safety glasses with s					
Skin and Body Protect	•					
Respiratory Protection	Respiratory Protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.					
Hygiene Measures		Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.				
	9. PHYSICAL AND	CHEMICAL PROPERT	IES			
Appearance	Dark amber	Odor	Slight, Acidic			
Physical State	Liquid	рН	Acidic			
Flash Point	Not applicable	Boiling Point/Range	230 °C			
Solubility Vapor Density	Soluble No information available	Vapor Pressure	No information available			
	10. STABILIT	Y AND REACTIVITY				
Stability	Stable under normal	conditions of use and storage.				
Incompatible Products	Metals. Bases. Oxidizing agents.					
Conditions to Avoid	Excessive heat. Incompatible products.					
Hazardous Decomposition P	roducts Hydrogen chloride.					
Hazardous Polymerization	n Hazardous polymerization does not occur.					

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Iron (III) chloride hexahydrate	None Known	None Known	None Known
Water	90 mL/kg (Rat)	None Known	None Known

Chronic Toxicity

Chronic Toxicity

May cause adverse liver effects.

Chemical Name	ACGIH	IARC	NTP	OSHA
Iron (III) chloride	None Known	None Known	None Known	None Known
hexahydrate				
Water	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disrupters	EU - Endocrine Disruptors -	Japan - Endocrine Disruptor
	Candidate List	Evaluated Substances	Information
Iron (III) chloride hexahydrate	None Known	None Known	None Known

Product Code(s) 4459

Water

None Known

None Known

None Known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Iron (III) chloride hexahydrate	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Chemical Name	Log Pow
Iron (III) chloride hexahydrate	None Known
Water	None Known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose according to federal, state, and local regulations. If permitted, neutralize reagent with sodium bicarbonate/sodium carbonate, add slurry to large volume of water to dilute, rinse to drain with excess water.

Chemical Name
Iron (III) chloride
hexahydrate - 10025-77-1
Water - 7732-18-5

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Iron (III) chloride	None Known	None Known	None Known	None Known
hexahydrate - 10025-77-1				
Water - 7732-18-5	None Known	None Known	None Known	None Known

14. TRANSPORT INFORMATION

DOT		
	Proper Shipping Name Hazard Class UN-No Packing Group Reportable Quantity (RQ)	FERRIC CHLORIDE SOLUTION 8 2582 III 1000
ΙΑΤΑ		
	UN-No	2582
	Proper Shipping Name	FERRIC CHLORIDE SOLUTION
	Hazard Class	8
	Packing Group	III
IMDG	/IMO	
	Proper Shipping Name	FERRIC CHLORIDE SOLUTION
	Hazard Class	8
	UN-No	2582
	Packing Group	III

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELIN CS	ENCS	IECSC	KECL	PICCS	AICS
Iron (III) chloride hexahydrate 10025-77-1 (25)	TSCA	DSL	EINECS/ELIN CS	1-213	X	KECL	Х	Х
Water 7732-18-5 (to 100)	Present	Х	Х	ENCS	Х	KE-35400	Х	Х

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Iron (III) chloride hexahydrate	10025-77-1	25	None Known
Water	7732-18-5	to 100	None Known

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Iron (III) chloride hexahydrate 10025-77-1 (25)	None Known	None Known	None Known	None Known
Water 7732-18-5 (to 100)	None Known	None Known	None Known	None Known

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs..

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Iron (III) chloride hexahvdrate	10025-77-1	25	None Known	None Known	None Known	None Known
nexanyurate						
Water	7732-18-5	to 100	None Known	None Known	None Known	None Known

CERCLA

[Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
	Iron (III) chloride hexahydrate	None Known	None Known
	Water	None Known	None Known

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

Chemical Name	CAS-No	California Prop. 65
Iron (III) chloride hexahydrate	10025-77-1	None Known
Water	7732-18-5	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Iron (III) chloride	None Known	None Known	X	None Known	Х
hexahydrate					
Water	None Known	None Known	None Known	None Known	None Known

International Regulations

Mexico - Grade

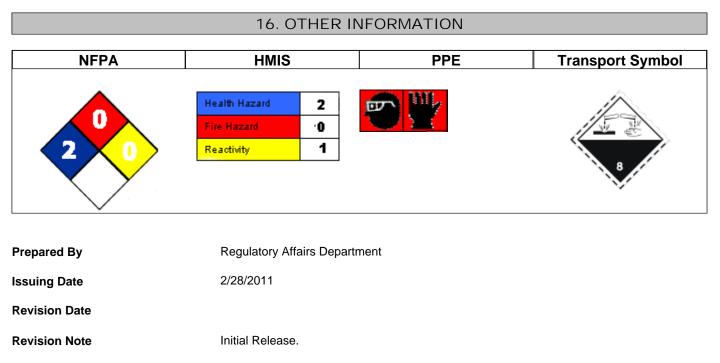
Chemical Name	Carcinogen Status	Exposure Limits
Iron (III) chloride hexahydrate	None Known	Mexico: TWA= 1 mg/m ³
Water	None Known	None Known

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

Non-controlled



Disclaimer

The information provided on this MSDS 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.

End of MSDS