

Safety Data Sheet

Category 1

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier Product name

Nitrate Reagent #1

Other means of identification		
Product Code(s)	5146	
UN-No	2837	

Recommended use of the chemical and restrictions on useRecommended UseUse as a laboratory reagent. Industrial (not for food or food contact use).

Details of the supplier of the safety data sheet

Manufacturer Address LaMotte Company, Inc. 802 Washington Avenue P.O. Box 329 Chestertown, MD 21620 USA T 410-778-3100 F 410-778-9748

Emergency telephone number

Serious eye damage/eye irritation

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

 EMERGENCY OVERVIEW

 DANGER

 Hazard statements

 Causes serious eye damage.

 Official state liquid

 Appearance Clear pink

 Physical state liquid
 Odor Odorless

Precautionary Statements - Prevention

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF SWALLOWED, Drink 1 or 2 glasses of water, Call a physician immediately

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

Other Hazards

Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Cresol red	1733-12-6	<0.1
Ammonium sulfate	7783-20-2	8
Sodium hydrogen sulfate, monohydrate	10034-88-5	26
Water	7732-18-5	to 100%

4. FIRST AID MEASURES

First Aid Measures	
General advice	Show this safety data sheet to the doctor in attendance. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. If symptoms persist, call a physician.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Drink plenty of water. Call a physician immediately. Never give anything by mouth to an unconscious person.
Self-protection of the first aider	Use personal protection recommended in Section 8. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

5. FIRE-FIGHTING MEASURES

<u>Suitable extinguishing media</u> Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing.		
Environmental precautions	See Section 12 for additional Ecological Information.		
Methods and material for containment and cleaning up			
Methods for containment	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local /		

national regulations (see Section 13).

Methods for cleaning up Containerize spill material and hold for later disposal. If local regulations permit, dissolve with large volume of water, neutralize with alkaline material (sodium bicarbonate), then rinse to drain with excess water. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. See section 8.

Conditions for safe storage, including any incompatibilities

StorageKeep container tightly closed in a dry and well-ventilated place. Keep out of the reach of
children. Keep away from heat.

Incompatible Products

Strong oxidizing agents. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Cresol red 1733-12-6	-	-	Not Established
Ammonium sulfate 7783-20-2	-	-	Not Established
Sodium hydrogen sulfate, monohydrate 10034-88-5	-	-	Not Established
Water 7732-18-5	-	-	Not Established

Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/Face Protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Gloves & Lab Coat. Impervious clothing. Rubber gloves. Nitrile rubber.
Hygiene Measures	Do not eat, drink or smoke when using this product.
	9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance	liquid Clear pink	Odor	Odorless
Property	<u>Values</u>	Remarks • Metho	<u>od</u>
pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas)	<1 No information available No information available No information available No information available	No information ava	ailable

	No information ovailable
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific gravity	No information available
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Other Information	
Softening point	No information available
Molecular weight	No information available
	No information available
VOC Content (%)	
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Stability	Stab
Hazardous polymerization	Haza

Stable under recommended storage conditions. Hazardous polymerization does not occur.

Conditions to avoidExcessive heat.Incompatible materialsStrong oxidizing agents. Acids.Hazardous decomposition productsSulfur oxides (SOx). Sodium oxides. Ammonia.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Cresol red 1733-12-6	Not Established	Not Established	Not Established
Ammonium sulfate 7783-20-2	= 2000 mg/kg (Rat)	Not Established	Not Established
Sodium hydrogen sulfate, monohydrate 10034-88-5	= 2490 mg/kg (Rat)	Not Established	Not Established
Water 7732-18-5	> 90 mL/kg (Rat)	Not Established	Not Established

Information on toxicological effects

Sensitization No information available

Chemical name	ACGIH	IARC	NTP	OSHA
Cresol red 1733-12-6	-	Not Established	Not Established	-
Ammonium sulfate 7783-20-2	-	Not Established	Not Established	-
Sodium hydrogen sulfate, monohydrate 10034-88-5	-	Not Established	Not Established	-
Water 7732-18-5	-	Not Established	Not Established	-

ATEmix (oral)

6850

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 0.054 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Cresol red 1733-12-6	Not Established	Not Established	Not Established
Ammonium sulfate 7783-20-2	Not Established	123 - 128: 96 h Poecilia reticulata mg/L LC50 semi-static 32.2 - 41.9: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 460 - 1000: 96 h Leuciscus idus mg/L LC50 static 5.2 - 8.2: 96 h Oncorhynchus mykiss mg/L LC50 static 126: 96 h Poecilia reticulata mg/L LC50 18: 96 h Cyprinus carpio mg/L LC50 250: 96 h Brachydanio rerio mg/L LC50 420: 96 h Brachydanio rerio mg/L LC50 semi-static 480: 96 h Brachydanio rerio mg/L LC50 flow-through 100: 96 h	LC50 423: 24 h Daphnia magna mg/L EC50
Sodium hydrogen sulfate, monohydrate 10034-88-5	Not Established	Not Established	190: 48 h Daphnia magna mg/L EC50
Water 7732-18-5	Not Established	Not Established	Not Established

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Cresol red 1733-12-6	Not Established
Ammonium sulfate 7783-20-2	-5.1
Sodium hydrogen sulfate, monohydrate 10034-88-5	Not Established
Water 7732-18-5	Not Established

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents/containers in accordance with local regulations. This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261). When in compliance with local regulations, neutralize reagent to pH 7 with dilute base (NaOH/soda ash/slaked lime), then rinse to drain with excess water.

Contaminated packaging

Dispose of waste product or used containers according to local regulations.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Cresol red 1733-12-6	Not Established	-	Not Established	Not Established
Ammonium sulfate 7783-20-2	Not Established	-	Not Established	Not Established
Sodium hydrogen sulfate, monohydrate 10034-88-5	Not Established	-	Not Established	Not Established
Water 7732-18-5	Not Established	-	Not Established	Not Established

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Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Cresol red 1733-12-6	Not Established	Not Established	Not Established	Not Established
Ammonium sulfate 7783-20-2	Not Established	Not Established	Not Established	Not Established
Sodium hydrogen sulfate, monohydrate 10034-88-5	Not Established	Not Established	Not Established	Not Established
Water 7732-18-5	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Cresol red 1733-12-6	
Ammonium sulfate 7783-20-2	
Sodium hydrogen sulfate, monohydrate 10034-88-5	
Water 7732-18-5	

14. TRANSPORT INFORMATION

Proper shipping name	BISULFATE, AQUEOUS SOLUTION
UN-No	2837
Hazard Class	8
Packing group	II

IATA	
Proper shipping name	BISULFATE, AQUEOUS SOLUTION
UN-No	2837
Hazard Class	8
Packing group	II
IMDG/IMO	
Proper shipping name	BISULFATE, AQUEOUS SOLUTION
UN-No	2837
Hazard Class	8
Packing group	II

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Complies
KECL	Does not comply
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Cresol red	Not Established
1733-12-6	
Ammonium sulfate	1.0
7783-20-2	
Sodium hydrogen sulfate, monohydrate	Not Established
10034-88-5	
Water	Not Established
7732-18-5	
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

CWA (Clean Water Act)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Cresol red 1733-12-6	Not Established	Not Established	Not Established	Not Established
Ammonium sulfate 7783-20-2	Not Established	Not Established	Not Established	Not Established
Sodium hydrogen sulfate, monohydrate 10034-88-5	Not Established	Not Established	Not Established	Not Established
Water 7732-18-5	Not Established	Not Established	Not Established	Not Established

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Cresol red 1733-12-6	-	Not Established	-
Ammonium sulfate 7783-20-2	-	Not Established	-
Sodium hydrogen sulfate, monohydrate 10034-88-5	-	Not Established	-
Water 7732-18-5	-	Not Established	-

US State Regulations

This product does not contain any Proposition 65 chemicals U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania

Water 7732-18-5	Not Established	Not Established	Х	
Sodium hydrogen sulfate, monohydrate 10034-88-5	Not Established	Not Established	Not Established	
Ammonium sulfate 7783-20-2	Not Established	Х	Х	
Cresol red 1733-12-6	Not Established	Not Established	Not Established	

16. OTHER INFORMATION





Prepared by Issuing Date Revision Date Reason for revision <u>Disclaimer</u> Regulatory Affairs Department May-14-2015 May-27-2015 New US GHS format

The information provided on this SDS 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 Material Safety Data Sheet