

Issuing Date 5/29/2012

Revision Number 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** SULFIDE REAGENT C

**Product Code(s)** 4460

**Recommended Use** Test kit reagent. Laboratory chemicals. Industrial (not for food or food contact use).

**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**

Irritating to eyes, respiratory system, and skin  
May be harmful if swallowed, inhaled, or absorbed through skin

**Appearance** Clear, colorless**Physical State** Liquid**Odor** None**Potential Health Effects****Principle Routes of Exposure** Eye contact, Skin contact, and, Ingestion.**Acute Toxicity****Eyes**

Irritating to eyes. May cause redness, itching, and pain.

**Skin**

Irritating to skin. Symptoms can include redness, itching, and pain.

**Inhalation**

Irritating to respiratory system. Irritating to the respiratory system; may cause symptoms that include coughing and shortness of breath.

**Ingestion**

May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic Effects**

None known

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Diammonium phosphate	7783-28-0	40
Water, distilled	7732-18-5	to 100%

## 4. FIRST AID MEASURES

**General Advice** Do not get in eyes, on skin, or on clothing. Show this safety data sheet to the doctor in attendance.

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists or develops, contact a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Remove and wash contaminated clothing before re-use. If irritation develops or persists, consult physician.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel.
<b>Ingestion</b>	Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Consult a physician. Drink plenty of water.
<b>Protection of First-aiders</b>	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. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not a fire hazard.			
<b>Flash Point</b>	Not applicable			
<b>Suitable Extinguishing Media</b>	Water spray, dry chemical, carbon dioxide (CO <sub>2</sub> ), or foam.			
<b>Explosion Data</b>				
<b>Sensitivity to Mechanical Impact</b>	No.			
<b>Sensitivity to Static Discharge</b>	No.			
<b>NFPA</b>	<b>Health Hazard 2</b>	<b>Flammability 0</b>	<b>Stability 1</b>	<b>Physical and Chemical Hazards N/A</b>
<b>HMIS</b>	<b>Health Hazard 1</b>	<b>Flammability 0</b>	<b>Stability 1</b>	

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.
<b>Methods for Containment</b>	Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Dispose according to federal, state, and local regulations.
<b>Methods for Cleaning Up</b>	After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not ingest.
<b>Storage</b>	Keep containers tightly closed in a dry, cool, and well-ventilated place. Store at room temperature. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diammonium phosphate 7783-28-0	None Known	None Known	None Known
Water, distilled 7732-18-5	None Known	None Known	None Known

<b>Engineering Measures</b>	Ensure that eyewash stations and safety showers are close to the workstation location.
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**Personal Protective Equipment**

<b>Eye/Face Protection</b>	Safety glasses with side-shields.
<b>Skin and Body Protection</b>	Wear protective gloves/clothing.
<b>Respiratory Protection</b>	Maintain adequate ventilation.

**Hygiene Measures**

Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes and clothing. Wash hands and face before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless	<b>Odor</b>	None
<b>Physical State</b>	Liquid	<b>pH</b>	8
<b>Flash Point</b>	Not applicable	<b>Boiling Point/Range</b>	No information available
<b>Freezing Point</b>	No information available		

<b>Solubility</b>	Soluble	<b>Evaporation Rate</b>	No data available
<b>Vapor Pressure</b>	No data available		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions of use and storage.
<b>Incompatible Products</b>	Strong acids. Strong bases. Sodium hypochlorite.
<b>Conditions to Avoid</b>	Incompatible products.
<b>Hazardous Decomposition Products</b>	Burning may produce: Ammonia. Phosphorous oxides.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Diammonium phosphate	6500 mg/kg ( Rat )	7950 mg/kg ( Rabbit )	None Known
Water, distilled	None Known	None Known	None Known

**Chronic Toxicity**

**Chronic Toxicity** None known.

Chemical Name	ACGIH	IARC	NTP	OSHA
Diammonium phosphate	None Known	None Known	None Known	None Known
Water, distilled	None Known	None Known	None Known	None Known

**Endocrine Disruptor Information**

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Diammonium phosphate	None Known	None Known	None Known
Water, distilled	None Known	None Known	None Known

## 12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Diammonium phosphate	None Known	LC50= 26.5 mg/L Oncorhynchus mykiss 96 h LC50= 3.3 mg/L Pimephales promelas 96 h	None Known	None Known
Water, distilled	None Known	None Known	None Known	None Known

Chemical Name	Log Pow
Diammonium phosphate	None Known
Water, distilled	None Known

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Dispose of in accordance with local regulations.

**Contaminated Packaging** Dispose of in accordance with local regulations.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Diammonium phosphate - 7783-28-0	None Known	None Known	None Known	None Known
Water, distilled - 7732-18-5	None Known	None Known	None Known	None Known

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

## 15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Diammonium phosphate 7783-28-0 ( 40 )	Present	X	X	1-379	X	KE-09799	X	X
Water, distilled 7732-18-5 ( to 100% )	Present	X	X	ENCS	X	KE-35400	X	X

U.S. 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	CAS-No	Weight %	SARA 313 - Threshold Values %
Diammonium phosphate	7783-28-0	40	1.0
Water, distilled	7732-18-5	to 100%	None Known

**SARA 311/312 Hazard Categories**

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

**Clean Water Act**

This product contains the following substances which are regulated 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
Diammonium phosphate 7783-28-0 ( 40 )	None Known	None Known	None Known	None Known
Water, distilled 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
Diammonium phosphate	7783-28-0	40	None Known	None Known	None Known	None Known
Water, distilled	7732-18-5	to 100%	None Known	None Known	None Known	None Known

**CERCLA**

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Diammonium phosphate	None Known	None Known
Water, distilled	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
Diammonium phosphate	7783-28-0	None Known
Water, distilled	7732-18-5	None Known

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Diammonium phosphate	None Known	None Known	None Known	None Known	None Known
Water, distilled	None Known	None Known	None Known	None Known	None Known

**International Regulations**

**Mexico - Grade**



Chemical Name	Carcinogen Status	Exposure Limits
Diammonium phosphate	None Known	None Known
Water, distilled	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

Component	WHMIS Hazard Class
Diammonium phosphate 7783-28-0 ( 40 )	Not determined
Water, distilled 7732-18-5 ( to 100% )	Uncontrolled product according to WHMIS classification criteria

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td style="text-align: center;"><b>1</b></td> </tr> <tr> <td>Fire Hazard</td> <td style="text-align: center;"><b>0</b></td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;"><b>1</b></td> </tr> </table>	Health Hazard	<b>1</b>	Fire Hazard	<b>0</b>	Reactivity	<b>1</b>		
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**Prepared By** Regulatory Affairs Department  
**Issuing Date** 5/29/2012  
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**Revision Note**  
 Update to Format  
**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**