



Issuing Date 10/10/2011

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Phosphate Reducing Reagent

Product Code(s) 3836

Synonyms none / ninguno / aucun

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**Emergency Overview**

Product dust may be irritating to eyes, skin and respiratory system

Appearance White**Physical State** Powder**Odor** Odorless**Potential Health Effects****Principle Routes of Exposure** Eye or skin contact, and inhalation**Acute Toxicity**

Eyes May cause irritation.

Skin May cause irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion May cause irritation. May be harmful if swallowed.

Chronic Effects**Aggravated Medical Conditions** None known.**Environmental Hazard** No information available.**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
D-Isoascorbic acid	89-65-6	10
Sucrose	57-50-1	90

4. FIRST AID MEASURES**General Advice** Do not get in eyes, on skin, or on clothing.

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. If irritation persists or develops, contact a physician.
Skin Contact	Wash off with soap and plenty of water removing all contaminated clothes and shoes. If irritation develops or persists, consult physician.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen.
Ingestion	Drink plenty of water. Clean mouth with water. If symptoms persist or develop contact physician.
Notes to Physician	Treat symptomatically.
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. FIRE-FIGHTING MEASURES

Flammable Properties	Not a fire hazard.			
Flash Point	Not applicable			
Suitable Extinguishing Media	Water spray, dry chemical, carbon dioxide (CO ₂), or foam.			
Explosion Data				
NFPA	Health Hazard 0	Flammability 0	Stability 0	Physical and Chemical Hazards N/A
HMIS	Health Hazard 1	Flammability 0	Stability 0	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Refer to Section 8. None required for material as supplied.
Methods for Containment	Sweep up in a manner that does not disperse dust and shovel into suitable containers for disposal. Dispose according to federal, state, and local regulations.
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. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Fine dust dispersed in air may ignite. Provide appropriate exhaust ventilation at places where dust is formed. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.
Storage	Keep containers tightly closed in a dry, cool, and well-ventilated place. Protect from moisture. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
D-Isoascorbic acid 89-65-6	None Known	None Known	None Known
Sucrose 57-50-1	TWA: 10 mg/m ³	TWA: 15 mg/m ³ TWA: 5 mg/m ³	TWA: 5 mg/m ³ TWA: 10 mg/m ³

Engineering Measures	Provide appropriate exhaust ventilation at places where dust is formed. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/Face Protection	Safety glasses with side-shields. Avoid contact with eyes.
Skin and Body Protection	Gloves & Lab Coat.
Respiratory Protection	Maintain adequate ventilation.
Hygiene Measures	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White	Odor	Odorless
Physical State	Powder	pH	2-3 (0.1g/10mL water)
Flash Point	Not applicable	Autoignition Temperature	Not applicable
Boiling Point/Range	Not applicable	Flammability Limits in Air	No data available
Explosion Limits	No data available		
Specific Gravity	No data available	Molecular Weight	No data available
Water Solubility	Soluble in water	Solubility	Soluble
Vapor Pressure	No information available	Vapor Density	No information available

10. STABILITY AND REACTIVITY

Stability	Stable.
Incompatible Products	Strong oxidizing agents. Strong bases. Chemically active metals.
Conditions to Avoid	Exposure to air or moisture over prolonged periods. Excessive heat.
Hazardous Reactions	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
D-Isoascorbic acid	18 g/kg (Rat)	None Known	None Known
Sucrose	29700 mg/kg (Rat)	None Known	None Known

Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product.
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Chemical Name	ACGIH	IARC	NTP	OSHA
D-Isoascorbic acid	None Known	None Known	None Known	None Known
Sucrose	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information

D-Isoascorbic acid	None Known	None Known	None Known
Sucrose	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
D-Isoascorbic acid	None Known	None Known	None Known	None Known
Sucrose	None Known	None Known	None Known	None Known

Persistence and Degradability No information available.

Bioaccumulation/Accumulation No information available.

Chemical Name	Log Pow
D-Isoascorbic acid	None Known
Sucrose	None Known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose according to federal, state, and local regulations. If permitted, dissolve in large volume of water, neutralize pH with dilute base, rinse to drain with excess water.

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
D-Isoascorbic acid - 89-65-6	None Known	None Known	None Known	None Known
Sucrose - 57-50-1	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
D-Isoascorbic acid 89-65-6 (10)	Present	X	X	9-131	X	KE-21807	X	X
Sucrose 57-50-1 (90)	Present	X	X	ENCS	X	KE-17258	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 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 %
D-Isoascorbic acid	89-65-6	10	None Known
Sucrose	57-50-1	90	None Known

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
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
D-Isoascorbic acid 89-65-6 (10)	None Known	None Known	None Known	None Known
Sucrose 57-50-1 (90)	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 substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
D-Isoascorbic acid	89-65-6	10	None Known	None Known	None Known	None Known
Sucrose	57-50-1	90	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
D-Isoascorbic acid	None Known	None Known
Sucrose	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
D-Isoascorbic acid	89-65-6	None Known
Sucrose	57-50-1	None Known

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
D-Isoascorbic acid	None Known	None Known	None Known	None Known	None Known
Sucrose	X	None Known	X	None Known	X

International Regulations

Mexico - Grade



Chemical Name	Carcinogen Status	Exposure Limits
D-Isoascorbic acid	None Known	None Known
Sucrose	None Known	Mexico: TWA= 10 mg/m ³

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
D-Isoascorbic acid 89-65-6 (10)	Not determined
Sucrose 57-50-1 (90)	Uncontrolled product according to WHMIS classification criteria

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table><tr><td>Health Hazard</td><td>1</td></tr><tr><td>Fire Hazard</td><td>0</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	1	Fire Hazard	0	Reactivity	0		
Health Hazard	1								
Fire Hazard	0								
Reactivity	0								

Prepared By Regulatory Affairs Department

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Revision Note
Initial Release

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