

MATERIAL SAFETY DATA SHEET

Issuing Date 3/25/2013 Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name DEHA REAGENT 1

Product Code(s) 4791

Recommended UseTest 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 cause burns to eyes and skin
May be harmful if swallowed

Appearance Clear, colorless Physical state liquid Odor odorless

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29

CFR 1910.1200).

Potential health effects

Principle Routes of Exposure Skin Contact, Ingestion.

Acute toxicity

Eyes Irritating to eyes. May cause burns. Effects should be less severe than those seen from

higher concentrations.

Skin Irritating to skin. May cause burns. Effects are expected to be less severe than for

exposures to higher concentrations which symtoms include severe burns, pain, redness.

Inhalation May cause irritation of respiratory tract.

Ingestion Causes irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and

diarrhea.

Chronic effects

Aggravated Medical Conditions Hypersensitivity may occur in those with preexisting skin disorders. Preexisting eye

disorders.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Kathon CG/ICP Preservative	KATHON	<0.1
Nitric acid	7697-37-2	1.4
Glycine	56-40-6	<4
Water	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.

Eye contactRinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes while removing

all contaminated clothing and shoes. Consult a physician.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Consult a physician.

Ingestion Do NOT induce vomiting. Drink large quantity of water. Call a physician immediately. Never

give anything by mouth to an unconscious person.

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 (CO₂), or foam.

NFPA Health hazard 1 flammability 0 Stability 0 Physical and Chemical Hazards -

HMIS Health hazard 0 flammability 0 Stability 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Refer to Section 8. Use personal protective equipment. Avoid contact with skin, eyes, and

inhalation of vapors.

Methods for cleaning up

Neutralize spill with alkaline material (sodium bicarbonate), being careful to prevent

splattering, then containerize slurry and hold for later disposal. If local regulations permit, dilute slurry with water and rinse to drain with excess water. Keep in suitable and closed

containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with

skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.

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Storage

Keep containers tightly closed in a dry, cool, and well-ventilated place. Store away from strong bases or metals. Keep away from direct sunlight. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Kathon CG/ICP Preservative KATHON	None known	None known	None known
Nitric acid 7697-37-2	4 ppm STEL TWA: 2 ppm	TWA: 2 ppm TWA: 5 mg/m³	IDLH: 25 ppm TWA: 2 ppm TWA: 5 mg/m³ STEL: 4 ppm STEL: 10 mg/m³
Glycine 56-40-6	None known	None known	None known
Water 7732-18-5	None known	None known	None known

Engineering Measures Showers

Eyewash stations Ventilation systems.

Personal protective equipment

Eye/face Protection Skin and body protection Respiratory protection Safety glasses with side-shields. If splashes are likely to occur, wear:. Face-shield.

Wear protective gloves/clothing. Nitrile rubber. Neoprene gloves.

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 PROPERTIES

AppearanceClear, colorlessOdorodorlessPhysical stateliquidpH2-3

Flash point Not Applicable Boiling Point/Range ca. 100°C/212°F

Vapor density Essentially the same as water

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage.

Incompatible Products Strong bases. Metallic powders. Sulfides.

Conditions to avoid Excessive heat. Incompatible products.

Hazardous decomposition products May produce the following when heated to decomposition:. Nitrogen oxides (NOx).

Hydrogen nitrate.

Hazardous polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

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Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Kathon CG/ICP Preservative	None known	None known	None known
Nitric acid	None known	None known	67 ppm (Rat)4 h 130 mg/m³ (Rat)4 h
Glycine	7930 mg/kg (Rat)	None known	None known
Water	90 mL/kg (Rat)	None known	None known

Chronic toxicity

Chemical name	ACGIH	IARC	NTP	OSHA
Kathon CG/ICP Preservative	None known	None known	None known	None known
Nitric acid	None known	Group 2A	None known	X
Glycine	None known	None known	None known	None known
Water	None known	None known	None known	None known

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine disrupting potential
Kathon CG/ICP Preservative	None known	None known	None known
Nitric acid	None known	None known	None known
Glycine	None known	None known	None known
Water	None known	None known	None known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Toxicity	to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Kathon CG/ICP Preservative	None l	nown	None known	None known	None known
Nitric acid	None l	nown	None known	None known	None known
Glycine	None l	nown	None known	None known	None known
Water	None l	nown	None known	None known	None known
Chemical name	,		Log Pow		•
Kathon CG/ICP Prese	rvative	None known			
Nitric acid		= -2.3 25 °C			
Glycine			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	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Kathon CG/ICP Preservative - KATHON	None known	None known	None known	None known
Nitric acid - 7697-37-2	None known	None known	None known	None known
Glycine - 56-40-6	None known	None known	None known	None known
Water - 7732-18-5	None known	None known	None known	None known

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

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15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELIN CS	ENCS	IECSC	KECL	PICCS	AICS
Kathon CG/ICP Preservative KATHON (<0.1)	TSCA	DSL	EINECS/ELIN CS	ENCS	IECSC	KECL	PICCS	AICS
Nitric acid 7697-37-2(1.4)	Present	Х	Х	Present	Х	KE-25911	Х	Х
Glycine 56-40-6 (<4)	Present	Х	Х	Present	Х	KE-01153	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 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 %
Kathon CG/ICP Preservative	KATHON	<0.1	None known
Nitric acid	7697-37-2	1.4	1.0
Glycine	56-40-6	<4	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

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Kathon CG/ICP Preservative KATHON (<0.1)	None known	None known	None known	None known
Nitric acid 7697-37-2 (1.4)	1000 lb	None known	None known	X
Glycine 56-40-6 (<4)	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 contains the following HAPs:.

Chemical name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Kathon CG/ICP Preservative	KATHON	<0.1	None known	None known	None known	None known
Nitric acid	7697-37-2	1.4	None known	None known	None known	None known
Glycine	56-40-6	<4	None known	Group II	None known	None known
Water	7732-18-5	to 100%	None known	None known	None known	None known

CERCLA

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ

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Kathon CG/ICP Preservative	None known	None known
Nitric acid	1000 lb	1000 lb
Glycine	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
Kathon CG/ICP Preservative	KATHON	None known
Nitric acid	7697-37-2	None known
Glycine	56-40-6	None known
Water	7732-18-5	None known

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Kathon CG/ICP Preservative	None known	None known	None known	None known	None known
Nitric acid	Χ	Х	X	Х	X
Glycine	None known	None known	None known	None known	None known
Water	None known	None known	None known	None known	None known

International Regulations

Mexico - Grade

Chemical name	Carcinogen Status	Exposure Limits
Kathon CG/ICP Preservative	None known	None known
Nitric acid	None known	Mexico: TWA 2 ppm Mexico: TWA 5 mg/m³ Mexico: STEL 4 ppm Mexico: STEL 10 mg/m³
Glycine	None known	None known
Water	None known	None known

CANADA

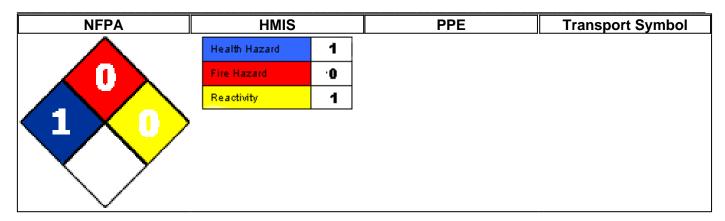
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

Component	WHMIS Hazard Class
Kathon CG/ICP Preservative	Not Determined
KATHON (<0.1)	
Nitric acid	1 %
7697-37-2 (1.4)	C,E
	E C,D1B,E
Glycine	Uncontrolled product according to WHMIS classification criteria
56-40-6 (<4)	
Water	Uncontrolled product according to WHMIS classification criteria
7732-18-5 (to 100%)	



Chemical name	NPRI
Nitric acid	X

16. OTHER INFORMATION



Prepared by Regulatory Affairs Department Issuing Date 3/25/2013

Revision date - 3/23/20

Revision note MSDS was reviewed per Canada requires MSDS to be dated within 3

years of the request. 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