



Issuing Date 3/19/2013

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** IODINE REAGENT #1  
**Product Code(s)** 7254  
**Synonyms** none  
**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**  
May cause skin and eye irritation  
Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea  
**Appearance** Clear, colorless      **Physical State** Liquid      **Odor** Odorless

**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** Skin contact, Ingestion.

**Acute Toxicity**  
**Eyes** May cause irritation.  
**Skin** May cause irritation.  
**Inhalation** May cause irritation of respiratory tract.  
**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**Chronic Effects**  
**Aggravated Medical Conditions** None known.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Sodium hydroxide	1310-73-2	<0.05
2-Furancarboxylic acid	88-14-2	<0.1
Kathon CG/ICP Preservative	KATHON	<0.1
Soluble Starch (Amylodextrin)	9005-84-9	0.3
Potassium iodide	7681-11-0	18
Water, distilled	7732-18-5	to 100%

**4. FIRST AID MEASURES**

<b>General Advice</b>	Do not get in eyes, on skin, or on clothing.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult 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. If irritation develops or persists, consult physician.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen.
<b>Ingestion</b>	Rinse mouth. Consult a physician. Never give anything by mouth to an unconscious person.
<b>Protection of First-aiders</b>	Use personal protective equipment. 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>Suitable Extinguishing Media</b>	Water spray, dry chemical, carbon dioxide (CO <sub>2</sub> ), or foam.			
<b>NFPA</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Stability</b> 0	<b>Physical and Chemical Hazards</b> -
<b>HMIS</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Stability</b> 0	

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Refer to Section 8.
<b>Methods for Containment</b>	Soak up with inert absorbent material, containerize, and hold for disposal. 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. 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. To maintain product quality, do not store in heat or direct sunlight. Separate from acids. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide 1310-73-2	None Known	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
2-Furancarboxylic acid 88-14-2	None Known	None Known	None Known
Kathon CG/ICP Preservative KATHON	None Known	None Known	None Known
Soluble Starch (Amylodextrin) 9005-84-9	None Known	None Known	None Known
Potassium iodide 7681-11-0	TWA: 0.01 ppm	None Known	None Known
Water, distilled 7732-18-5	None Known	None Known	None Known

### Personal Protective Equipment

#### Eye/Face Protection

Safety glasses with side-shields.

#### Skin and Body Protection

Gloves & Lab Coat.

#### Hygiene Measures

Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless	<b>Odor</b>	Odorless
<b>Physical State</b>	Liquid	<b>pH</b>	7
<b>Boiling Point/Range</b>		>100°C/212°F	

**Vapor Density** <1 (Air = 1)

## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions of use and storage.

**Incompatible Products** Strong acids. Strong oxidizing agents. Contact with metals (aluminum, zinc, tin) may release hydrogen gas.

**Conditions to Avoid** Exposure to light. Exposure to air. Incompatible products.

**Hazardous Decomposition Products** Iodine gas. Potassium Oxides.

**Hazardous Polymerization** Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	None Known	1350 mg/kg ( Rabbit )	None Known
2-Furancarboxylic acid	None Known	None Known	None Known
Kathon CG/ICP Preservative	None Known	None Known	None Known
Soluble Starch (Amylodextrin)	None Known	None Known	None Known
Potassium iodide	None Known	None Known	None Known
Water, distilled	None Known	None Known	None Known

**Chronic Toxicity**

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hydroxide	None Known	None Known	None Known	None Known
2-Furancarboxylic acid	None Known	None Known	None Known	None Known
Kathon CG/ICP Preservative	None Known	None Known	None Known	None Known
Soluble Starch (Amylodextrin)	None Known	None Known	None Known	None Known
Potassium iodide	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
Sodium hydroxide	None Known	None Known	None Known
2-Furancarboxylic acid	Group III Chemical	None Known	None Known
Kathon CG/ICP Preservative	None Known	None Known	None Known
Soluble Starch (Amylodextrin)	None Known	None Known	None Known
Potassium iodide	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)
Sodium hydroxide	None Known	LC50= 45.4 mg/L Oncorhynchus mykiss 96 h	None Known	None Known
2-Furancarboxylic acid	None Known	None Known	None Known	None Known
Kathon CG/ICP Preservative	None Known	None Known	None Known	None Known
Soluble Starch (Amylodextrin)	None Known	None Known	None Known	None Known
Potassium iodide	None Known	None Known	None Known	None Known
Water, distilled	None Known	None Known	None Known	None Known

Chemical Name	Log Pow
Sodium hydroxide	None Known
2-Furancarboxylic acid	None Known
Kathon CG/ICP Preservative	None Known
Soluble Starch (Amylodextrin)	None Known
Potassium iodide	None Known
Water, distilled	None Known

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method**

Dispose of in accordance with local regulations. This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sodium hydroxide - 1310-73-2	None Known	None Known	None Known	None Known
2-Furancarboxylic acid - 88-14-2	None Known	None Known	None Known	None Known

Kathon CG/ICP Preservative - KATHON	None Known	None Known	None Known	None Known
Soluble Starch (Amylodextrin) - 9005-84-9	None Known	None Known	None Known	None Known
Potassium iodide - 7681-11-0	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
Sodium hydroxide 1310-73-2 ( <0.05 )	Present	X	X	1-410; 2-1972	X	KE-31487	X	X
2-Furancarboxylic acid 88-14-2 ( <0.1 )	Present	X	X	ENCS	IECSC	KECL	X	X
Kathon CG/ICP Preservative KATHON ( <0.1 )	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Soluble Starch (Amylodextrin) 9005-84-9 ( 0.3 )	XU	X	X	ENCS	X	KE-01773	X	X
Potassium iodide 7681-11-0 ( 18 )	Present	X	X	(1)-439	X	KECL	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 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 %
Sodium hydroxide	1310-73-2	<0.05	None Known
2-Furancarboxylic acid	88-14-2	<0.1	None Known
Kathon CG/ICP Preservative	KATHON	<0.1	None Known
Soluble Starch (Amylodextrin)	9005-84-9	0.3	None Known
Potassium iodide	7681-11-0	18	None Known
Water, distilled	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
Sodium hydroxide 1310-73-2 ( <0.05 )	None Known	None Known	None Known	None Known
2-Furancarboxylic acid 88-14-2 ( <0.1 )	None Known	None Known	None Known	None Known
Kathon CG/ICP Preservative KATHON ( <0.1 )	None Known	None Known	None Known	None Known
Soluble Starch (Amylodextrin) 9005-84-9 ( 0.3 )	None Known	None Known	None Known	None Known
Potassium iodide 7681-11-0 ( 18 )	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
Sodium hydroxide	1310-73-2	<0.05	None Known	None Known	None Known	None Known
2-Furancarboxylic acid	88-14-2	<0.1	None Known	None Known	None Known	None Known
Kathon CG/ICP Preservative	KATHON	<0.1	None Known	None Known	None Known	None Known
Soluble Starch (Amylodextrin)	9005-84-9	0.3	None Known	None Known	None Known	None Known
Potassium iodide	7681-11-0	18	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
Sodium hydroxide	1000 lb	None Known
2-Furancarboxylic acid	None Known	None Known
Kathon CG/ICP Preservative	None Known	None Known
Soluble Starch (Amylodextrin)	None Known	None Known
Potassium iodide	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
Sodium hydroxide	1310-73-2	None Known
2-Furancarboxylic acid	88-14-2	None Known
Kathon CG/ICP Preservative	KATHON	None Known
Soluble Starch (Amylodextrin)	9005-84-9	None Known
Potassium iodide	7681-11-0	None Known
Water, distilled	7732-18-5	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium hydroxide	X	X	X	None Known	X
2-Furancarboxylic acid	None Known	None Known	None Known	None Known	None Known
Kathon CG/ICP Preservative	None Known	None Known	None Known	None Known	None Known
Soluble Starch (Amylodextrin)	None Known	None Known	None Known	None Known	None Known
Potassium iodide	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
Sodium hydroxide	None Known	None Known
2-Furancarboxylic acid	None Known	None Known
Kathon CG/ICP Preservative	None Known	None Known
Soluble Starch (Amylodextrin)	None Known	None Known
Potassium iodide	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
Sodium hydroxide 1310-73-2 ( <0.05 )	1 % E
2-Furancarboxylic acid 88-14-2 ( <0.1 )	Not determined
Kathon CG/ICP Preservative KATHON ( <0.1 )	Not determined
Soluble Starch (Amylodextrin) 9005-84-9 ( 0.3 )	Uncontrolled product according to WHMIS classification criteria
Potassium iodide 7681-11-0 ( 18 )	1 % D2A
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>1</td> </tr> <tr> <td>Fire Hazard</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> </table>	Health Hazard	1	Fire Hazard	0	Reactivity	1		
Health Hazard	1								
Fire Hazard	0								
Reactivity	1								

Prepared By Regulatory Affairs Department  
 Issuing Date 3/19/2013  
 Revision Date -  
 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