

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	SULFITE REAGENT A
Product Code(s)	7327
Recommended Use	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

DANGER!**Emergency Overview**

Corrosive

Causes severe skin burns and eye damage

Liquid and mist can cause burns to all body tissue

May be harmful if swallowed, inhaled, or absorbed through skin

Appearance Clear, colorless**Physical State** Liquid**Odor** Pungent

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 Inhalation, skin contact, and ingestion.

Acute Toxicity**Eyes**

Corrosive to the eyes and may cause severe damage including blindness.

Skin

Corrosive. Can cause redness, pain, and severe skin burns. May discolor the skin. Harmful if absorbed through skin.

Inhalation

Corrosive to nose, throat and respiratory tract. Depending on exposure, the effects from inhalation of corrosive mists can vary from mild irritation to serious damage to respiratory tract.

Ingestion

Corrosive. Can burn mouth, throat, stomach, and GI tract.

Chronic Effects

Chronic exposure to corrosive mists or vapors may cause erosion of the teeth. Prolonged contact causes serious tissue damage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula HCl in water

Chemical Name	CAS-No	Weight %
Hydrochloric acid	7647-01-0	10
Water	7732-18-5	to 100%

4. FIRST AID MEASURES

General Advice	Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray.
Eye Contact	Immediately flush eyes with gentle stream of water for at least 15 minutes, occasionally lifting upper and lower eyelids. Call a physician immediately.
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Excess acid on skin can be neutralized with a 2% solution of sodium bicarbonate in water. Call a physician immediately.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel. Call a physician immediately.
Ingestion	DO NOT INDUCE VOMITING. Drink plenty of water. Clean mouth with water. Call a physician immediately. Never give anything by mouth to an unconscious person.
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 flammable.
Flash Point	Not applicable
Suitable Extinguishing Media	Dry chemical, CO ₂ , water spray or alcohol-resistant foam.
Explosion Data	

Specific Hazards Arising from the Chemical

Contact with most metals causes the formation of explosive and flammable hydrogen gas.

NFPA	Health Hazard 3	Flammability 0	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 3	Flammability 0	Stability 1	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment. Refer to Section 8. 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. 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.
Storage	Keep containers tightly closed in a dry, cool, and well-ventilated place. Store at room temperature. Keep away from direct sunlight. Keep away from heat and incompatibles. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid 7647-01-0	None Known	Ceiling 5 ppm (7mg/m ³)	IDLH: 50 ppm Ceiling: 7 mg/m ³ Ceiling: 5 ppm
Water 7732-18-5	None Known	None Known	None Known

Personal Protective Equipment**Eye/Face Protection**

Safety glasses with side-shields.

Skin and Body Protection

Wear protective gloves/clothing. Neoprene gloves. Rubber gloves.

Respiratory Protection

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

Appearance	Clear, colorless	Odor	Pungent
Physical State	Liquid	pH	<1
Flash Point	Not applicable	Autoignition Temperature	Not applicable
Boiling Point/Range	~101 °C / 214 °F	Flammability Limits in Air	Not applicable
Specific Gravity	1 (water = 1)	Vapor Pressure	No information available
Vapor Density	No information available		

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use and storage.
Incompatible Products	Strong bases. Metals. Amines. Cyanides. Sulfides. Formaldehyde.
Conditions to Avoid	Excessive heat. Incompatible products. Direct sunlight.
Hazardous Decomposition Products	Chlorine gas. Hydrogen gas. Hydrogen chloride.
Hazardous Reactions	Thermal oxidative decomposition produces toxic chlorine gas and flammable hydrogen gas. May react with metals to produce flammable hydrogen gas.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric acid	700 mg/kg (Rat)	5010 mg/kg (Rabbit)	3124 ppm (Rat) 1 h
Water	90 mL/kg (Rat)	None Known	None Known

Chronic Toxicity**Chronic Toxicity**

Chronic exposure to corrosive mists or vapors may cause erosion of the teeth. Prolonged contact causes serious tissue damage.

Carcinogenicity

Hydrochloric acid is classified by IARC as Group 3 - not classifiable as to its carcinogenicity to humans.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrochloric acid	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Hydrochloric acid	None Known	None Known	None Known
Water	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Concentrated Hydrochloric acid may be toxic to aquatic life.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Hydrochloric acid	None Known	LC50= 282 mg/L Gambusia affinis 96 h	None Known	None Known
Water	None Known	None Known	None Known	None Known
Chemical Name	Log Pow			
Hydrochloric acid	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
Hydrochloric acid - 7647-01-0	None Known	None Known	None Known	None Known
Water - 7732-18-5	None Known	None Known	None Known	None Known

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	HYDROCHLORIC ACID SOLUTION
Hazard Class	8
UN-No	1789
Packing Group	II
Reportable Quantity (RQ)	5000

IATA

UN-No	1789
Proper Shipping Name	HYDROCHLORIC ACID SOLUTION
Hazard Class	8
Packing Group	II

IMDG/IMO

Proper Shipping Name	HYDROCHLORIC ACID SOLUTION
Hazard Class	8
UN-No	1789
Packing Group	II

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Hydrochloric acid 7647-01-0 (10)	T	X	X	X	X	KE-20189 X	X	X
Water 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 %
Hydrochloric acid	7647-01-0	10	1.0
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

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
Hydrochloric acid 7647-01-0 (10)	5000 lb	None Known	None Known	X
Water 7732-18-5 (to 100%)	None Known	None Known	None Known	None Known

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Hydrochloric acid	7647-01-0	10	Present	None Known	None Known	None Known
Water	7732-18-5	to 100%	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrochloric acid	5000 lb	5000 lb
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
Hydrochloric acid	7647-01-0	None Known
Water	7732-18-5	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Hydrochloric acid	X	X	X	X	X
Water	None Known	None Known	None Known	None Known	None Known

International Regulations

Mexico - Grade No information available.

Chemical Name	Carcinogen Status	Exposure Limits
Hydrochloric acid	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
Hydrochloric acid 7647-01-0 (10)	1 % A D1A E D1B E D1A E
Water 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>3</td> </tr> <tr> <td>Fire Hazard</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> </table>	Health Hazard	3	Fire Hazard	0	Reactivity	1		
Health Hazard	3								
Fire Hazard	0								
Reactivity	1								

Prepared By Regulatory Affairs Department
 Issuing Date 2/11/2013
 Revision Date -
 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



Issuing Date 9/23/2013

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name SULFITE REAGENT B

Product Code(s) 7328

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

Avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes, and clothing

May cause eye irritation

Appearance colorless **Physical state** liquid **Odor** None

OSHA Regulatory Status While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Potential health effects
Principle Routes of Exposure Skin and eye contact.

Acute toxicity

Eyes Contact with eyes may cause irritation.

Skin Not an expected route of exposure. Prolonged or repeated contact may dry skin and cause irritation.

Inhalation Not an expected route of exposure.

Ingestion Not an expected route of exposure. May cause gastrointestinal discomfort if consumed in large amounts.

Chronic effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Salicylic acid	69-72-7	0.13
Soluble Starch (Amylodextrin)	9005-84-9	0.5
Water	7732-18-5	to 100%

4. FIRST AID MEASURES

General advice	Do not get in eyes, on skin, or on clothing.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists or develops, contact a physician.
Skin contact	Wash off with warm water and soap. If skin irritation persists, call a physician.
Inhalation	Not expected.
Ingestion	Drink plenty of water. Do not induce vomiting without medical advice (pH 3). Consult a physician. Never give anything by mouth to an unconscious person.
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	Dry chemical, CO ₂ , alcohol-resistant foam or water spray.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Refer to Section 8. Avoid contact with skin, eyes, and clothing.
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.
Storage	Keep containers tightly closed in a dry, cool, and well-ventilated place. Store at room temperature. Keep away from direct sunlight. Keep away from heat and incompatibles. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Salicylic acid 69-72-7	None known	None known	None known

Soluble Starch (Amylodextrin) 9005-84-9	None known	None known	None known
Water 7732-18-5	None known	None known	None known

Personal protective equipment**Eye/face Protection**

Safety glasses with side-shields.

Skin and body protection

Wear protective gloves/clothing.

Respiratory protection

None required under normal usage.

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

Appearance	colorless	Odor	None
Physical state	liquid	pH	3
Flash point	Not Applicable	Boiling Point/Range	ca. 100°C/212°F

Vapor pressure	<17 mmHg @ 20°C	Vapor density	<1(Air = 1)
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10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage.**Incompatible Products** Strong oxidizing agents. Iron Salts.**Conditions to avoid** Excessive heat. Incompatible products. Direct sunlight.**Hazardous decomposition products** Carbon monoxide (CO).**Hazardous polymerization** Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Salicylic acid	891 mg/kg (Rat)	2000 mg/kg (Rabbit) 2000 mg/kg (Rat)	0.9 mg/L (Rat) 1 h
Soluble Starch (Amylodextrin)	None known	None known	None known
Water	90 mL/kg (Rat)	None known	None known

Chronic toxicity

Chemical name	ACGIH	IARC	NTP	OSHA
Salicylic acid	None known	None known	None known	None known
Soluble Starch (Amylodextrin)	None known	None known	None known	None known
Water	None known	None known	None known	None known

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine disrupting potential
Salicylic acid	None known	None known	None known
Soluble Starch (Amylodextrin)	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)
Salicylic acid	None known	None known	EC50 = 138 mg/L 1 h EC50 = 214 mg/L 5 min EC50 = 552 mg/L 1 h EC50 = 78 mg/L 210 min	EC50 = 105 mg/L 24 h
Soluble Starch (Amylodextrin)	None known	None known	None known	None known
Water	None known	None known	None known	None known
Chemical name	Log Pow			
Salicylic acid	0 - 2.26 37 °C			
Soluble Starch (Amylodextrin)	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
Salicylic acid - 69-72-7	None known	None known	None known	None known
Soluble Starch (Amylodextrin) - 9005-84-9	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

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Salicylic acid 69-72-7 (0.13)	Present	X	X	3-1640	X	KE-20367	X	X
Soluble Starch (Amylodextrin) 9005-84-9 (0.5)	XU	X	X	ENCS	X	KE-01773	X	X
Water 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 %
Salicylic acid	69-72-7	0.13	None known
Soluble Starch (Amylodextrin)	9005-84-9	0.5	None known
Water	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 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
Salicylic acid 69-72-7 (0.13)	None known	None known	None known	None known
Soluble Starch (Amylodextrin) 9005-84-9 (0.5)	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)

Chemical name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Salicylic acid	69-72-7	0.13	None known	Group III	None known	None known
Soluble Starch (Amylodextrin)	9005-84-9	0.5	None known	None known	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
Salicylic acid	None known	None known
Soluble Starch (Amylodextrin)	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
Salicylic acid	69-72-7	None known
Soluble Starch (Amylodextrin)	9005-84-9	None known
Water	7732-18-5	None known

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Salicylic acid	None known	None known	None known	None known	None known
Soluble Starch (Amylodextrin)	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
Salicylic acid	None known	None known

Soluble Starch (Amylodextrin)	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 LaMotte classifies as a Laboratory Supply House per section 10 and 17 of the CPR and is exempt

Component	WHMIS Hazard Class
Salicylic acid 69-72-7 (0.13)	0.1 % D2A
Soluble Starch (Amylodextrin) 9005-84-9 (0.5)	Uncontrolled product according to WHMIS classification criteria
Water 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;">1</td> </tr> <tr> <td>Fire Hazard</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">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
Issuing Date	9/23/2013
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

Issuing Date 7/11/2011

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	SULFITE REAGENT C
Product Code(s)	7329
Synonyms	none
Recommended Use	Laboratory chemicals. Industrial (not for food or food contact use). Test kit reagent.
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 slight irritation

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. This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Potential Health Effects	
Principle Routes of Exposure	Ingestion
Acute Toxicity	
Eyes	May cause irritation.
Skin	May cause irritation.
Inhalation	Not an expected route of exposure.
Ingestion	Gastrointestinal discomfort.
Chronic Effects	
None known	
Main Symptoms	See Section 11 for additional Toxicological Information.
Aggravated Medical Conditions	No information available.
Environmental Hazard	No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sodium Bicarbonate	144-55-8	<0.1
Potassium iodide	7681-11-0	<1
Iodic acid (HIO ₃), potassium salt	7758-05-6	<0.1
Water	7732-18-5	to 100%

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 warm water and soap. If irritation develops or persists, consult physician.
Inhalation	Not an expected route of exposure. Move to fresh air.
Ingestion	Drink 1 or 2 glasses of water. If symptoms persist or develop contact physician. Never give anything by mouth to an unconscious person.
Protection of First-aiders	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

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				
<u>NFPA</u>	Health Hazard 0	Flammability 0	Stability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 0	Flammability 0	Stability 0	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Refer to Section 8.
Methods for Containment	Soak up with inert absorbent material, containerize, and hold for disposal.
Methods for Cleaning Up	If local regulations permit, 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. 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. 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
Sodium Bicarbonate 144-55-8	None Known	None Known	None Known
Potassium iodide 7681-11-0	TWA: 0.01 ppm	None Known	None Known
Iodic acid (HIO ₃), potassium salt 7758-05-6	None Known	None Known	None Known
Water 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless	Odor	Odorless
Physical State	Liquid	pH	8
Flash Point	Not applicable	Boiling Point/Range	No information available
Vapor Pressure	No information available	Vapor Density	No information available

10. STABILITY AND REACTIVITY

Stability	Stable.
Incompatible Products	Not applicable.
Conditions to Avoid	None known based on information supplied.
Hazardous Decomposition Products	None under normal use.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Bicarbonate	4220 mg/kg (Rat)	None Known	None Known
Potassium iodide	None Known	None Known	None Known
Iodic acid (HIO ₃), potassium salt	None Known	None Known	None Known
Water	90 mL/kg (Rat)	None Known	None Known

Chronic Toxicity**Chronic Toxicity** None known.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium Bicarbonate	None Known	None Known	None Known	None Known

Potassium iodide	None Known	None Known	None Known	None Known
Iodic acid (HIO ₃), potassium salt	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Sodium Bicarbonate	None Known	None Known	None Known
Potassium iodide	None Known	None Known	None Known
Iodic acid (HIO ₃), potassium salt	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)
Sodium Bicarbonate	EC50 = 650 mg/L 120 h	LC50 8250 - 9000 mg/L Lepomis macrochirus 96 h	None Known	EC50 = 2350 mg/L 48 h
Potassium iodide	None Known	None Known	None Known	None Known
Iodic acid (HIO ₃), potassium salt	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Chemical Name	Log Pow
Sodium Bicarbonate	None Known
Potassium iodide	None Known
Iodic acid (HIO ₃), potassium salt	None Known
Water	None Known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations. Can be disposed as waste water, when in compliance with local regulations.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sodium Bicarbonate - 144-55-8	None Known	None Known	None Known	None Known
Potassium iodide - 7681-11-0	None Known	None Known	None Known	None Known
Iodic acid (HIO ₃), potassium salt - 7758-05-6	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

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium Bicarbonate 144-55-8 (<0.1)	Present	X	X	1-164; 1-310	X	KE-31360	X	X
Potassium iodide 7681-11-0 (<1)	Present	X	X	(1)-439	X	KECL	X	X
Iodic acid (HIO ₃), potassium salt 7758-05-6 (<0.1)	Present	X	X	(1)-440	X	KECL	X	X
Water 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 Bicarbonate	144-55-8	<0.1	None Known
Potassium iodide	7681-11-0	<1	None Known
Iodic acid (HIO ₃), potassium salt	7758-05-6	<0.1	None Known
Water	7732-18-5	to 100%	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

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium Bicarbonate 144-55-8 (<0.1)	None Known	None Known	None Known	None Known
Potassium iodide 7681-11-0 (<1)	None Known	None Known	None Known	None Known
Iodic acid (HIO ₃), potassium salt 7758-05-6 (<0.1)	None Known	None Known	None Known	None Known
Water 7732-18-5 (to 100%)	None Known	None Known	None Known	None Known

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Sodium Bicarbonate	144-55-8	<0.1	None Known	None Known	None Known	None Known
Potassium iodide	7681-11-0	<1	None Known	None Known	None Known	None Known
Iodic acid (HIO ₃), potassium salt	7758-05-6	<0.1	None Known	None Known	None Known	None Known
Water	7732-18-5	to 100%	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs

Sodium Bicarbonate	None Known	None Known
Potassium iodide	None Known	None Known
Iodic acid (HIO ₃), potassium salt	None Known	None Known
Water	None Known	None Known

U.S. State Regulations

Chemical Name	CAS-No	California Prop. 65
Sodium Bicarbonate	144-55-8	None Known
Potassium iodide	7681-11-0	None Known
Iodic acid (HIO ₃), potassium salt	7758-05-6	None Known
Water	7732-18-5	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium Bicarbonate	None Known	None Known	None Known	None Known	None Known
Potassium iodide	None Known	None Known	None Known	None Known	None Known
Iodic acid (HIO ₃), potassium salt	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
Sodium Bicarbonate	None Known	None Known
Potassium iodide	None Known	None Known
Iodic acid (HIO ₃), potassium salt	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
Sodium Bicarbonate 144-55-8 (<0.1)	Uncontrolled product according to WHMIS classification criteria
Potassium iodide 7681-11-0 (<1)	1 % D2A
Iodic acid (HIO ₃), potassium salt 7758-05-6 (<0.1)	C
Water 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 data-bbox="508 201 716 239">Health Hazard</td> <td data-bbox="724 201 792 239">0</td> </tr> <tr> <td data-bbox="508 249 716 287">Fire Hazard</td> <td data-bbox="724 249 792 287">0</td> </tr> <tr> <td data-bbox="508 298 716 336">Reactivity</td> <td data-bbox="724 298 792 336">0</td> </tr> </table>	Health Hazard	0	Fire Hazard	0	Reactivity	0		Not regulated
Health Hazard	0								
Fire Hazard	0								
Reactivity	0								

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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