



# MSDS

P.O. Box 329 - 802 Washington Avenue Chestertown, MD 21620 - USA

TELEPHONE # FOR INFORMATION 410 778-3100

24 HOUR EMERGENCY NUMBER (CHEM-TEL): USA, Canada, Puerto Rico 800-255-3924;

Outside North American Continent 813-248-0585 (call Collect)

## MATERIAL SAFETY DATA SHEET

### 1. Product Identification

Product Code: 2790

Product Description: Hypochlorite D

Manufactured By: LaMotte Company

802 Washington Avenue

Chestertown, MD 21620

### 2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	10102-17-7 Sodium Thiosulfate, pentahydrate	35	N/E	N/E
Yes	497-19-8 Sodium Carbonate	<0.1	N/E	N/E
No	7732-18-5 Water	65		

### 3. Hazards Overview

Primary Route Of Entry: Ingestion Skin

Large oral doses may cause nausea and diarrhea.

#### HMIS Hazard

Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least

Health: 1      Flammability: 0      Reactivity: 1

Carcinogenicity: None

Other Health Related Comments:

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**Product Code:** 2790

**Product Description:** Hypochlorite D

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**4. First Aid Measures**

**Eye Contact:** Flush with water for 15 minutes. Consult physician if irritation develops.

**Skin Contact:** Wash with soap and water.

**Ingestion:** Give plenty of water. Induce vomiting. If large amount has been swallowed, consult physician.

**Inhalation:** N/A

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**5. Fire Fighting Measures**

**Flash Point (Method Used):** N/A

**LEL:** N/A

**UEL:** N/A

**Extinguishing Media:** Not a fire hazard

**Special Fire Fighting Procedures:** N/A

**Unusual Fire & Explosion Hazard:** N/A

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**6. Accidental Release Measures**

Wash down drain with excess water.

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**7. Handling & Storage**

Store in cool, dry place out of direct sunlight and away from strong acids or other incompatible materials.

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**Product Code:** 2790

**Product Description:** Hypochlorite D

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**8. Exposure Controls/Personal Protection**

**Ventilation**

Normal

**Protection When Handling**

Eye Protection Gloves Lab Coat

**Work/Hygenic Practices:** Wash hands after handling.

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**9. Physical & Chemical Properties**

**Appearance:** Clear Colorless Liquid

**Solubility In Water:** Soluble

**Odor:** None

**pH:** 6

**Vapor Density:** Unknown

**Vapor Pressure:** Unknown

**Boiling Point:** ca.100 deg C

**Melting Point:** Unknown

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**10. Stability & Reactivity**

**Stable:** Yes

**Conditions To Avoid:** Heat

**Incompatibility (Materials To Avoid):** Acids, strong oxidizers

**Hazardous Decomposition Products:** SO<sub>x</sub>, H<sub>2</sub>S; Reacts with acids to release sulfur dioxide.

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**11. Toxicological Information**

Low level of toxicity by ingestion

**Target Organs:** N/A

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Product Code: 2790

Product Description: Hypochlorite D

**12. Ecological Information**

Information Not Yet Available

**13. Disposal Considerations**

Flush to drain with water. Dispose according to federal, state and local regulations.

**14. Transportation Information**

Not Regulated For Transport

**15. Regulatory Information**

**Chemical Inventory Status**

Hazard	Ingredient	USA	Europe	--- Canada ---		Australia	Japan
		TSCA	EC	DSL	NDSL		
Yes	7772-98-7 Sodium Thiosulfate, anhydrous	Yes	Yes	Yes	No	Yes	Yes
Yes	497-19-8 Sodium Carbonate, Anhydrous	Yes	Yes	Yes	No	Yes	Yes
No	7732-18-5 Distilled Water	Yes	Yes	Yes	No	Yes	Yes

**Federal, State, & International Regulations**

Ingredient	--- SARA 302 ---		----- SARA 313 -----		CERCLA	RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category			
7772-98-7 Sodium Thiosulfate, anhydrous	No	No	No	No	No	No	No
497-19-8 Sodium Carbonate, Anhydrous	No	No	No	No	No	No	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

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**Product Code:** 2790

**Product Description:** Hypochlorite D

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Ingredient	--- SARA 311/312 --- Hazard Categories					----- Australia -----		This MSDS Is WHMIS Compliant
	Acute	Chronic	Fire	Pressure	Reactivity	Hazchem Code	Poison Schedule	
7772-98-7 Sodium Thiosulfate, anhydrous	Yes	No	No	No	No	None Allocated	None Allocated	
497-19-8 Sodium Carbonate, Anhydrous	Yes	No	No	No	No	None Allocated	S5	
7732-18-5 Distilled Water	No	No	No	No	No	None Allocated	None Allocated	
<b>product 2790 as a whole</b>	No	No	No	No	No	None Allocated	None Allocated	Yes

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**16. Other Information**

**Prepared By:** IP, Regulatory Affairs Department

**Revised:** 7/16/2007

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# MSDS

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Outside North American Continent 813-248-0585 (call Collect)

## MATERIAL SAFETY DATA SHEET

### 1. Product Identification

**Product Code:** 6809

**Product Description:** Potassium Iodide Crystals

**Manufactured By:** LaMotte Company

802 Washington Avenue

Chestertown, MD 21620

### 2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	7681-11-0 Potassium Iodide	100	N/E	N/E

### 3. Hazards Overview

**Primary Route Of Entry:** Skin Ingestion Inhalation

May be harmful if swallowed. May irritate eyes, skin, respiratory tract.

#### HMIS Hazard

Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least

Health: 2      Flammability: 0      Reactivity: 0

**Carcinogenicity:** None:

#### **Other Health Related Comments:**

Potassium iodide investigated as a mutagen, reproductive effector in tests on lab animals.

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**Product Code:** 6809

**Product Description:** Potassium Iodide Crystals

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**4. First Aid Measures**

**Eye Contact:** Flush with water for 15 minutes.

**Skin Contact:** Flush thoroughly with water. Wash with soap and water.

**Ingestion:** Drink several glasses of water. Consult physician.

**Inhalation:** Remove to fresh air.

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**5. Fire Fighting Measures**

**Flash Point (Method Used):** N/A

**LEL:** N/A

**UEL:** N/A

**Extinguishing Media:** Not a fire hazard

**Special Fire Fighting Procedures:** N/A

**Unusual Fire & Explosion Hazard:** Emits toxic fumes (iodine) under fire conditions

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**6. Accidental Release Measures**

Avoid inhalation of dust. Sweep up and flush down drain with excess water.

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**7. Handling & Storage**

Store in cool, dry, storage area away from incompatible materials.

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**Product Code:** 6809

**Product Description:** Potassium Iodide Crystals

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## **8. Exposure Controls/Personal Protection**

### **Ventilation**

Normal

### **Protection When Handling**

Gloves Eye Protection Lab Coat

**Work/Hygenic Practices:** Do not breathe dust. Wash after handling.

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## **9. Physical & Chemical Properties**

**Appearance:** White Granular solid

**Solubility In Water:** Soluble

**Odor:** None

**pH:** 6 (0.1g in 10mL water)

**Vapor Density:** N/A

**Vapor Pressure:** 1 mm Hg@ 745C

**Boiling Point:** 1330 deg C

**Melting Point:** 680 deg C

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## **10. Stability & Reactivity**

**Stable:** Yes

**Conditions To Avoid:** Heat, light, moisture

**Incompatibility (Materials To Avoid):** Strong acids, metallic salts

**Hazardous Decomposition Products:** Haz. combustion products - hydrogen iodide.

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## **11. Toxicological Information**

oral mouse LDLo: 1862 mg/kg

**Target Organs:** Skin Thyroid

**Pre-Existing Conditions Aggravated By Exposure:** Allergy to iodine. KI may start response

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**Product Code:** 6809

**Product Description:** Potassium Iodide Crystals

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**12. Ecological Information**

Information Not Yet Available

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**13. Disposal Considerations**

Dissolve in water and flush down drain with excess water.

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**14. Transportation Information**

Not Regulated For Transport

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**15. Regulatory Information**

**Chemical Inventory Status**

Hazard	Ingredient	USA TSCA	Europe EC	--- Canada --- DSL NDSL		Australia	Japan
Yes	7681-11-0	Yes	Yes	Yes	No	Yes	Yes

**Federal, State, & International Regulations**

Ingredient	--- SARA 302 ---		----- SARA 313 -----		CERCLA	RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category			
7681-11-0 Potassium Iodide	No	No	No	No	No	No	No

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**Product Code:** 6809

**Product Description:** Potassium Iodide Crystals

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<b>Ingredient</b>	<b>Acute</b>	<b>--- SARA 311/312 --- Hazard Categories</b>				<b>----- Australia -----</b>		<b>This MSDS Is WHMIS Compliant</b>
		<b>Chronic</b>	<b>Fire</b>	<b>Pressure</b>	<b>Reactivity</b>	<b>Hazchem Code</b>	<b>Poison Schedule</b>	
7681-11-0 Potassium Iodide	Yes	Yes	No	No	No	None Allocated	None Allocated	
<b>product 6809 as a whole</b>	Yes	Yes	No	No	No	None Allocated	None Allocated	Yes

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**16. Other Information**

Keep in tightly closed container, away from air & moisture.

**Prepared By:** DMH, Regulatory Affairs Department

**Revised:** 1/27/2009

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Issuing Date 6/14/2013

Revision Number 0

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name** HYPOCHLORITE REAGENT A

**Product Code(s)** 7939

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

**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

May be harmful if inhaled

May be harmful if swallowed

**Appearance** clear, colorless**Physical state** liquid**Odor** Vinegar-like**Potential health effects****Principle Routes of Exposure**

Eye or skin contact, ingestion, and inhalation.

**Acute toxicity****EYES**

Corrosive. Risk of serious damage to eyes. Causes irritation, redness, and pain.

**skin**

Corrosive. Causes burns. Symptoms can include redness, itching, and pain.

**Inhalation**

May be harmful if inhaled. 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. Ingestion may cause burns of mouth, throat, and stomach.

**Chronic effects****Aggravated Medical Conditions**

Hypersensitivity may occur in those with preexisting skin disorders. Respiratory disorders. Preexisting eye disorders.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical name	CAS-No	Weight %
Acetic acid	64-19-7	25
Water	7732-18-5	to 100%

#### 4. FIRST AID MEASURES

<b>General advice</b>	Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Show this safety data sheet to the doctor in attendance.
<b>Eye contact</b>	Immediately flush eyes with gentle stream of water for at least 15 minutes, occasionally lifting upper and lower eyelids. Call a physician immediately.
<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. Consult a physician.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel. Call a physician immediately.
<b>Ingestion</b>	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.
<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>	Dry chemical, CO <sub>2</sub> , water spray or alcohol-resistant foam.

<b>NFPA</b>	Health hazard 3	flammability 0	stability 0	<b>Physical and Chemical Hazards -</b>
<b>HMIS</b>	Health hazard 3	flammability 1	stability 1	

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Ensure adequate ventilation. Use personal protective equipment. Refer to Section 8. Avoid contact with skin, eyes, and inhalation of vapors.
<b>Methods for containment</b>	Absorb/Cover spill with sodium bicarbonate or sodium carbonate to neutralize, then place in a chemical waste container for later disposal. Dispose according to federal, state, and local regulations.
<b>Methods for cleaning up</b>	Keep in suitable and closed containers for disposal. 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.
<b>Storage</b>	Keep containers tightly closed in a dry, cool, and well-ventilated place. 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
Acetic acid 64-19-7	= 15 ppm STEL TWA: 10 ppm	TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>	IDLH: 50 ppm TWA: 25 mg/m <sup>3</sup> TWA: 10 ppm STEL: 15 ppm STEL: 37 mg/m <sup>3</sup>
Water 7732-18-5	None known	None known	None known

**Personal protective equipment****Eye/face Protection****Skin and body protection****Respiratory protection**

Safety glasses with side-shields.

Gloves &amp; Lab Coat. Impervious clothing. Impervious 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**

<b>Appearance</b>	clear colorless	<b>Odor</b>	Vinegar-like
<b>Physical state</b>	liquid	<b>pH</b>	1 - 2
<b>Flash point</b>	Not Applicable	<b>Autoignition temperature</b>	No information available
<b>Boiling Point/Range</b>	No information available		

<b>Vapor pressure</b>	No information available	<b>Vapor density</b>	No information available
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**10. STABILITY AND REACTIVITY**

<b>stability</b>	Stable under normal conditions of use and storage.
<b>Incompatible Products</b>	Strong acids. Oxidizing agents. Metals. Alkalis.
<b>Conditions to avoid</b>	Incompatible products. Ignitions sources - heat, sparks and open flames. Do not freeze.
<b>Hazardous decomposition products</b>	Carbon oxides (COx).
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetic acid	3310 mg/kg ( Rat )	1060 mg/kg ( Rabbit )	11.4 mg/L ( Rat ) 1 h
Water	90 mL/kg ( Rat )	None known	None known

**Chronic toxicity**

Chemical name	ACGIH	IARC	NTP	OSHA
Acetic 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
Acetic acid	None known	None known	None known

Water	None known	None known	None known
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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Acetic acid	None known	LC50= 75 mg/L <i>Lepomis macrochirus</i> 96 h LC50= 88 mg/L <i>Pimephales promelas</i> 96 h	EC50 = 8.8 mg/L 15 min EC50 = 8.8 mg/L 25 min EC50 = 8.8 mg/L 5 min	EC50 = 95 mg/L 24 h
Water	None known	None known	None known	None known

**Persistence and degradability** Based on components, product is expected to be readily biodegradable.

**Bioaccumulation/Accumulation** Acetic acid shows no potential for biological accumulation. (BCF <1).

Chemical name	Log Pow
Acetic acid	= -0.31 20 °C
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
Acetic acid - 64-19-7	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 ACETIC ACID SOLUTION, 25% Acid  
 Hazard Class 8  
 UN-No 2790  
 Packing group III  
 Reportable Quantity (RQ) 5000

### IATA

UN-No 2790  
 Proper shipping name ACETIC ACID ACETIC ACID SOLUTION, 25% Acid  
 Hazard Class 8  
 Packing group III

### IMDG/IMO

Proper shipping name ACETIC ACID SOLUTION, 25% Acid  
 Hazard Class 8  
 UN-No 2790  
 Packing group III

## 15. REGULATORY INFORMATION

### International Inventories

## HYPOCHLORITE REAGENT A

Product Code(s) 7939

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Acetic acid 64-19-7 ( 25 )	Present	X	X	2-688	X	KE-00013	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 %
Acetic acid	64-19-7	25	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	yes
Sudden release of pressure hazard	No
Reactive Hazard	yes

**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
Acetic acid 64-19-7 ( 25 )	5000 lb	None known	None known	X
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
Acetic acid	64-19-7	25	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	Extremely Hazardous Substances RQs
Acetic acid	5000 lb	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
Acetic acid	64-19-7	None known
Water	7732-18-5	None known

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Acetic acid	X	X	X	None known	X
Water	None known	None known	None known	None known	None known

**International Regulations****Mexico - Grade**

Chemical name	Carcinogen Status	Exposure Limits
Acetic acid	None known	Mexico: TWA= 25 mg/m <sup>3</sup> Mexico: TWA= 10 ppm
Water	None known	None known

**CANADA**

LaMotte classifies as a Laboratory Supply House per section 10 and 17 of the CPR 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
Acetic acid 64-19-7 ( 25 )	1 % B3 E D2B
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 align="center"><b>3</b></td> </tr> <tr> <td>Fire Hazard</td> <td align="center"><b>1</b></td> </tr> <tr> <td>Reactivity</td> <td align="center"><b>1</b></td> </tr> </table>	Health Hazard	<b>3</b>	Fire Hazard	<b>1</b>	Reactivity	<b>1</b>		
Health Hazard	<b>3</b>								
Fire Hazard	<b>1</b>								
Reactivity	<b>1</b>								

Prepared by  
Issuing Date  
Revision date  
Revision note

Regulatory Affairs Department  
6/14/2013

-  
Update to Format. MSDS was reviewed per Canada request - Canada requires MSDS to be dated within 3 years of the request.

**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