

Issuing Date 2/10/2012

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ZINC CONDITIONING REAGENT

Product Code(s) 7361

Synonyms none

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

WARNING!

Emergency Overview
May be harmful if swallowed
May irritate eyes and skin

Appearance Clear, colorless	Physical State Liquid	Odor Pungent
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Potential Health Effects
Principle Routes of Exposure Eye contact, Skin contact, and, Ingestion.

Acute Toxicity

Eyes	May cause irritation.
Skin	May cause irritation.
Inhalation	Not an expected route of exposure.
Ingestion	May be harmful if swallowed. May cause irritation.

Chronic Effects
Thioacetamide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sodium Bicarbonate	144-55-8	<0.1
Thioacetamide	62-55-5	0.25
Water	7732-18-5	to 100%

4. FIRST AID MEASURES

General Advice	Do not get in eyes, on skin, or on clothing. Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Consult a physician.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Consult a physician.
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				
NFPA	Health Hazard 1	Flammability 0	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 1	Flammability 0	Stability 0	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Refer to Section 8. Ensure adequate ventilation. Wear protective gloves/clothing and eye/face protection.
Methods for Containment	Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Dispose according to federal, state, and local regulations.
Methods for Cleaning Up	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 away from strong acids and oxidizers. Store at room temperature. 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
Thioacetamide 62-55-5	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 Safety glasses with side-shields.
Skin and Body Protection Nitrile rubber. Gloves & Lab Coat.
Respiratory Protection Use only with adequate ventilation.

Hygiene Measures Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless	Odor	Pungent
Physical State	Liquid	pH	8
Flash Point	Not applicable	Boiling Point/Range	ca. 100°C/212°F Similar to water

Explosion Limits

Solubility	Soluble	Vapor Pressure	<17 mmHg @ 20°C
Vapor Density	<1 (Air = 1)		

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage.

Conditions to Avoid Temperature extremes.

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
Thioacetamide	301 mg/kg (Rat)	None Known	None Known
Water	90 mL/kg (Rat)	None Known	None Known

Chronic Toxicity

Chronic Toxicity Thioacetamide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B).

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium Bicarbonate	None Known	None Known	None Known	None Known
Thioacetamide	None Known	Group 2B	Reasonably Anticipated	X
Water	None Known	None Known	None Known	None Known

IARC: (International Agency for Research on Cancer)
 Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Sodium Bicarbonate	None Known	None Known	None Known
Thioacetamide	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
Thioacetamide	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
Thioacetamide	None Known
Water	None Known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

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
Sodium Bicarbonate - 144-55-8	None Known	None Known	None Known	None Known
Thioacetamide - 62-55-5	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
Thioacetamide 62-55-5 (0.25)	Present	X	X	9-806	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 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 %
Sodium Bicarbonate	144-55-8	<0.1	None Known
Thioacetamide	62-55-5	0.25	0.1
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 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
Sodium Bicarbonate 144-55-8 (<0.1)	None Known	None Known	None Known	None Known
Thioacetamide 62-55-5 (0.25)	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 does not contain any HAPs.

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
Thioacetamide	62-55-5	0.25	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
Thioacetamide	10 lb	None Known

Water	None Known	None Known
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U.S. State Regulations

California Proposition 65

WARNING! This product contains a chemical known to the State of California to cause cancer

Chemical Name	CAS-No	California Prop. 65
Sodium Bicarbonate	144-55-8	None Known
Thioacetamide	62-55-5	Carcinogen
Water	7732-18-5	None Known

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium Bicarbonate	None Known	None Known	None Known	None Known	None Known
Thioacetamide	X	X	X	None Known	X
Water	None Known	None Known	None Known	None Known	None Known

International Regulations

Mexico - Grade

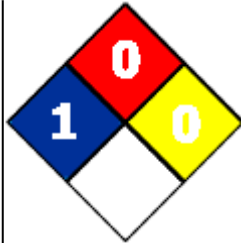

Chemical Name	Carcinogen Status	Exposure Limits
Sodium Bicarbonate	None Known	None Known
Thioacetamide	None Known	None Known
Water	None Known	None Known

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
Thioacetamide 62-55-5 (0.25)	0.1 %
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 2/10/2012

Revision Date 14-Feb-2012

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