

Issuing Date 3/16/2011

Revision Number 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** SODIUM THIOSULFATE, 0.1N (PERACETIC ACID TITRANT)

**Product Code(s)** S-6155

**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

**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**

Substance may cause slight skin irritation.

**Inhalation**

Not an expected route of exposure.

**Ingestion**

May cause gastrointestinal discomfort if consumed in large amounts.

**Chronic Effects**

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sodium Bicarbonate	144-55-8	<0.1
Thiosulfate, sodium, pentahydrate	10102-17-7	2.5
Water	7732-18-5	to 100%

## 4. FIRST AID MEASURES

**General Advice** Do not get in eyes, on skin, or on clothing.

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists or develops, contact a physician.
<b>Skin Contact</b>	Wash off with warm water and soap. If skin irritation persists, call a physician.
<b>Inhalation</b>	Not expected.
<b>Ingestion</b>	Drink plenty of water. If symptoms persist or develop contact physician. 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> , alcohol-resistant foam or water spray.			
<b>Explosion Data</b>				
<b>NFPA</b>	<b>Health Hazard 0</b>	<b>Flammability 0</b>	<b>Stability 0</b>	<b>Physical and Chemical Hazards -</b>
<b>HMIS</b>	<b>Health Hazard 0</b>	<b>Flammability 0</b>	<b>Stability 0</b>	

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Refer to Section 8. Avoid contact with skin, eyes, and clothing.
<b>Methods for Cleaning Up</b>	If local regulations permit, rinse to drain with excess water. 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. 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
Sodium Bicarbonate 144-55-8	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate 10102-17-7	None Known	None Known	None Known
Water 7732-18-5	None Known	None Known	None Known

<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Safety glasses with side-shields.
<b>Skin and Body Protection</b>	Wear protective gloves/clothing.

**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>	Colorless	<b>Odor</b>	None
<b>Physical State</b>	Liquid	<b>pH</b>	
7-7.5			
<b>Flash Point</b>	Not applicable	<b>Boiling Point/Range</b>	
>100		°C	
/		>212	
°F			

<b>Vapor Pressure</b>	<17 mmHg @ 20°C	<b>Vapor Density</b>	<1(Air = 1)
-----------------------	-----------------	----------------------	-------------

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions of use and storage.
<b>Incompatible Products</b>	Acids.
<b>Conditions to Avoid</b>	Excessive heat. Direct sunlight.
<b>Hazardous Polymerization</b>	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
Thiosulfate, sodium, pentahydrate	5000 mg/kg ( Rat )	None Known	None Known
Water	90 mL/kg ( Rat )	None Known	None Known

**Chronic Toxicity**

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium Bicarbonate	None Known	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate	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
Thiosulfate, sodium, pentahydrate	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
Thiosulfate, sodium, pentahydrate	None Known	LC50= 24000 mg/L Gambusia affinis 96 h	None Known	None Known
Water	None Known	None Known	None Known	None Known

Chemical Name	Log Pow
Sodium Bicarbonate	None Known
Thiosulfate, sodium, pentahydrate	None Known
Water	None Known

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method**

This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261). 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
Thiosulfate, sodium, pentahydrate - 10102-17-7	None Known	None Known	None Known	None Known
Water - 7732-18-5	None Known	None Known	None Known	None Known

## 14. TRANSPORT INFORMATION

**DOT** 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
Thiosulfate, sodium, pentahydrate 10102-17-7 (2.5)	TSCA	X	EINECS/ELINCS	1-503	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
Thiosulfate, sodium, pentahydrate	10102-17-7	2.5	None Known
Water	7732-18-5	to 100%	None Known

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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
Thiosulfate, sodium, pentahydrate 10102-17-7 (2.5)	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
Sodium Bicarbonate	144-55-8	<0.1	None Known	None Known	None Known	None Known
Thiosulfate, sodium, pentahydrate	10102-17-7	2.5	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	Extremely Hazardous Substances RQs

Sodium Bicarbonate	None Known	None Known
Thiosulfate, sodium, pentahydrate	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
Sodium Bicarbonate	144-55-8	None Known
Thiosulfate, sodium, pentahydrate	10102-17-7	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
Thiosulfate, sodium, pentahydrate	None Known	X	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known	None Known

**International Regulations**

**Mexico - Grade**

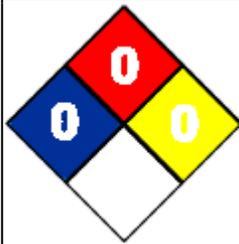
Chemical Name	Carcinogen Status	Exposure Limits
Sodium Bicarbonate	None Known	None Known
Thiosulfate, sodium, pentahydrate	None Known	None Known
Water	None Known	None Known

**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
Thiosulfate, sodium, pentahydrate 10102-17-7 (2.5)	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;"><b>1</b></td> </tr> <tr> <td>Fire Hazard</td> <td style="text-align: center;"><b>0</b></td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;"><b>0</b></td> </tr> </table>	Health Hazard	<b>1</b>	Fire Hazard	<b>0</b>	Reactivity	<b>0</b>		
Health Hazard	<b>1</b>								
Fire Hazard	<b>0</b>								
Reactivity	<b>0</b>								

---

**Prepared By** Regulatory Affairs Department  
**Issuing Date** 3/16/2011  
**Revision Date** 28-Mar-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**