

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/07/2005 Revision date: 07/09/2013 Supersedes: 05/30/2007

Version: 1.0

SECTION 4. Identification of the c	ubstance/mixture and of the com	nonv/undortok	ina
SECTION 1: Identification of the s 1.1. Product identifier	ubstance/mixture and of the com	pany/undertak	
Product form	· Substance		
	: Substance		
Substance name	: Sodium Thiosulfate, Pentahydrate		
CAS No	: 10102-17-7		
Product code Formula	: LC24990 : Na2S2O3·5H2O		
	ubstance or mixture and uses advised aga		
Use of the substance/mixture	: For laboratory and manufacturing use	e only.	
1.3. Details of the supplier of the safe	ety data sheet		
LabChem Inc Jackson's Pointe Commerce Park Building 10 16063 Zelienople, PA - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com	000, 1010 Jackson's Pointe Court		
1.4. Emergency telephone number			
Emergency number	: CHEMTREC: 1-800-424-9300 or 011	-703-527-3887	
SECTION 2: Hazards identification	<b>2</b>		
	- mixture		
GHS-US classification			
Not classified			
2.0 Label elemente			
2.2. Label elements			
GHS-US labelling			
No labelling applicable			
2.3. Other hazards			
Other hazards not contributing to the classification	: None.		
2.4. Unknown acute toxicity (GHS US	3)		
No data available	·		
SECTION 3: Composition/informa	tion on ingredients		
3.1. Substances	tion on ingredients		
Substance type	: Mono-constituent		
Name	Product identifier	%	GHS-US classification
Sodium Thiosulfate, Pentahydrate (Main constituent)	(CAS No) 10102-17-7	100	Not classified
Full text of H-phrases: see section 16			
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	<ol> <li>Never give anything by mouth to an u (show the label where possible).</li> </ol>	Inconscious person	i. If you feel unwell, seek medical advice
First-aid measures after inhalation	: Assure fresh air breathing. Allow the	victim to rest.	
First-aid measures after skin contact	: Remove affected clothing and wash a warm water rinse.	all exposed skin are	ea with mild soap and water, followed by
First-aid measures after eye contact	: Rinse immediately with plenty of wate persist.	er. Obtain medical a	attention if pain, blinking or redness
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomitin	ng. Obtain emergen	cy medical attention.
4.2. Most important symptoms and e	ffects, both acute and delayed		
Symptoms/injuries	: Not expected to present a significant	hazard under antici	ipated conditions of normal use.
o y mptomo/mjuneo			
	lical attention and special treatment neede	ed	

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	Ecom Dry nowdor. Carbon diavida. Water array. Sand
Suitable extinguishing media Unsuitable extinguishing media	<ul> <li>Foam. Dry powder. Carbon dioxide. Water spray. Sand.</li> <li>Do not use a heavy water stream.</li> </ul>
0 0	-
5.2. Special hazards arising from the s	
Reactivity	: Product is not explosive.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release me	
	equipment and emergency procedures
	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Safety glasses.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. No	tify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contain	ment and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store aways from
	other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and person	nal protection.
<b>SECTION 7: Handling and storage</b>	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation o
Hygiene measures	vapour. : Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inclu	
Storage conditions	: Keep container closed when not in use.
Incompatible products	: Strong oxidizers.
Incompatible materials	: Direct sunlight. Air and moisture sensitive. Hygroscopic.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pe	rsonal protection
8.1. Control parameters	
8.2. Exposure controls	
Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.
<b>SECTION 9: Physical and chemica</b>	I properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Appearance	: Crystalline solid.
Molecular mass	: 248.18 g/mol
Colour	: Colourless or white.
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07/09/2013	

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Odour	: Odourless.	
Odour threshold	: No data available	
рН	: No data available	
pH solution	: 6 - 8.4 5% solution	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 45 °C	
Freezing point	: No data available	
Boiling point	: 100 °C	
Flash point	: No data available	
Self ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density	: 1.73 g/cm³	
Solubility	: Soluble in water. Soluble in ammonia. Insoluble in organic solvents. Water: 79.4 g/100ml	
Log Pow	: -4.35	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: Not applicable.	
Oxidising properties	: None.	
Explosive limits	: No data available	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
Product is not explosive.		
10.2. Chemical stability		
Hygroscopic.		
10.3. Possibility of hazardous reactions		
Not established.		
10.4. Conditions to avoid		
Direct sunlight. Moisture. Air contact.		
10.5. Incompatible materials		
Strong oxidizers.		
10.6. Hazardous decomposition product		
Sulfur compounds.	9	
SECTION 11: Toxicological informa		
11.1. Information on toxicological effect	S	

#### Acute toxicity

: Not classified

Sodium Thiosulfate, Pentahydrate ( \f )10102-17-7	
LD50 oral rat	5000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classifiedBased on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	<ul> <li>Not classifiedBased on available data, the classification criteria are not met</li> <li>Not classified</li> </ul>

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Specific target organ toxicity (repeated exposure)	: Not classifiedBased on available data, the classification criteria are not met
Aspiration hazard Potential Adverse human health effects and symptoms	<ul> <li>Not classifiedBased on available data, the classification criteria are not met</li> <li>Based on available data, the classification criteria are not met.</li> </ul>

SECTION 12: Ecological information		
12.1. Toxicity		
Sodium Thiosulfate, Pentahydrate (10102-17-7	7)	
LC50 fishes 1	≥ 10000	
12.2. Persistence and degradability		
Sodium Thiosulfate, Pentahydrate (10102-17-7	7)	
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
Sodium Thiosulfate, Pentahydrate (10102-17-7	7)	
Log Pow	-4.35	
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
No additional information available		
12.5. Other adverse effects		
Other information	Avoid release to the environment.	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.	
Ecology - waste materials	: Avoid release to the environment.	
SECTION 14: Transport information		
In accordance with ADR / RID / ADNR / IMDG / IC	AO / IATA	
14.1. UN number		
Not applicable		
14.2. UN proper shipping name		
Not applicable		
14.3. Additional information		
Other information	No supplementary information available.	
Overland transport		
No additional information available		
Transport by sea		
No additional information available		
Air transport		
No additional information available		
SECTION 15: Regulatory information		
15.1. US Federal regulations		
Sodium Thiosulfate, Pentahydrate (10102-17-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
15.2. International regulations		
CANADA		
Sodium Thiosulfate, Pentahydrate (10102-17-7)		
Listed on the Canadian DSL (Domestic Sustance		

Listed on the Canadian DSL (Domestic Sustances List) inventory.		s List) inventory.
	WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

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#### **EU-Regulations**

No additional information available

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### 15.2.2. National regulations

Sodium Thiosulfate, Pentahydrate (10102-17-7)	
Not listed on the Canadian Ingredient Disclosure List	

#### 15.3. US State regulations

No additional information available

SECTION 16: Other information	
Indication of changes	: Revision - See : *.
Other information	: None.
NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 1 Slight Hazard
Physical	: 1 Slight Hazard
Personal Protection	: B

SDS US (GHS HazCom 2012)

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