



Revision Date May-20-2015

Item # Multi

Safety Data Sheet 0680

# Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Sodium Thiosulfate Solution 28%-50%  
**Synonyms** No information available  
**Recommended Use** Reserved for industrial and professional use  
**Uses advised against** Consumer uses: Private households (= general public = consumers).

CONTROLLED DOCUMENT  
IF STAMPED IN RED

**Company Name**  
 PVS Chemical Solutions Inc.  
 10900 Harper Ave.  
 Detroit, MI 48213  
 313-921-1200

**24 Hour Emergency Phone Number** CHEMTREC 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**Classification**  
**OSHA Regulatory Status** This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

### Emergency Overview

**Hazard statements** No known significant effects or critical hazards.  
**Physical hazards** Do not handle until all hazard precautions have been read and understood

The product contains no substances which at their given concentration, are considered to be hazardous to health

### Precautionary statements

#### Prevention

- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product

#### Response

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- If skin irritation occurs: Get medical advice/attention

#### Storage

- Store in a well-ventilated place. Keep container tightly closed
- Store in a secure area

#### Disposal

- Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)** None known.

### Other Information

Unknown Acute Toxicity 28-50% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	EC No.	Weight-% *
Water	7732-18-5	231-791-2	50-72
Sodium thiosulfate	7772-98-7	231-867-5	28-50

\*The exact percentage (concentration) of composition has been withheld as a trade secret

#### 4. FIRST AID MEASURES

<b>General advice</b>	Call 911 or emergency medical service Remove contaminated clothing and shoes Handle in accordance with good industrial hygiene and safety practice
<b>Eye contact</b>	<ul style="list-style-type: none"><li>• Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes</li><li>• If eye irritation persists: Get medical advice/attention</li></ul>
<b>Skin Contact</b>	<ul style="list-style-type: none"><li>• Remove contaminated clothing and shoes</li><li>• Immediately flush skin with plenty of water for at least 30 minutes.</li><li>• If symptoms persist, call a physician</li><li>• Wash contaminated clothing before reuse</li></ul>
<b>Inhalation</b>	<ul style="list-style-type: none"><li>• Remove to fresh air</li><li>• If not breathing, give artificial respiration</li><li>• If breathing is difficult, give oxygen</li><li>• Call a physician immediately</li></ul>
<b>Ingestion</b>	<ul style="list-style-type: none"><li>• Call a physician or poison control center immediately</li><li>• Do NOT induce vomiting</li><li>• Rinse mouth</li><li>• Drink 4 to 8 ounces (120-240 ml) of water as soon as possible after ingestion.</li><li>• Never give anything by mouth to an unconscious person</li></ul>
<b>Note to physician</b>	Treat symptomatically.
<b>Self-protection for first aid personnel</b>	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	<ul style="list-style-type: none"><li>• Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam</li><li>• Use extinguishing measures that are appropriate to local circumstances and the surrounding environment</li></ul>
<b>Unsuitable extinguishing media</b>	<ul style="list-style-type: none"><li>• No information available</li></ul>
<b>Specific hazards arising from the chemical</b>	<ul style="list-style-type: none"><li>• Thermal decomposition can lead to release of irritating and toxic gases and vapors</li><li>• Sulfur Oxides (SO<sub>x</sub>)</li><li>• Carbon oxides (CO<sub>x</sub>)</li></ul>
<b>Protective equipment and precautions for firefighters</b>	<ul style="list-style-type: none"><li>• Wear a self-contained breathing apparatus and chemical protective clothing</li></ul>
<b>Flammable properties</b>	<ul style="list-style-type: none"><li>• No information available</li></ul>
<b>Explosive properties</b>	<ul style="list-style-type: none"><li>• No information available</li></ul>

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	<ul style="list-style-type: none"><li>• Ensure adequate ventilation, especially in confined areas</li><li>• Do not touch or walk through spilled material</li></ul>
<b>Environmental precautions</b>	<ul style="list-style-type: none"><li>• For small spills, absorb material with clay absorbent or other compatible material. Dispose of the waste material according to local, state and governmental requirements.</li><li>• For large spills, contain the material using barriers of absorbent pigs, clay absorbent or earth dams.</li></ul>

## Item # Multi Sodium Thiosulfate Solution 28%-50%

<b>Methods for cleaning up</b>	<ul style="list-style-type: none"><li>• Dike far ahead of liquid spill for later disposal</li><li>• Prevent product from entering drains</li><li>• Take up mechanically, placing in appropriate containers for disposal</li><li>• Soak up with inert absorbent material</li><li>• Pick up and transfer to properly labeled containers</li><li>• Clean contaminated surface thoroughly</li></ul>
<b>Other Information</b>	<ul style="list-style-type: none"><li>• No information available</li></ul>

### 7. HANDLING AND STORAGE

<b>Advice on safe handling</b>	<ul style="list-style-type: none"><li>• Handle in accordance with good industrial hygiene and safety practice</li></ul>
<b>Storage Conditions</b>	<ul style="list-style-type: none"><li>• Keep away from food, drink and animal feeding stuffs</li><li>• Keep containers tightly closed in a dry, cool and well-ventilated place</li><li>• Protect from freezing</li></ul>
<b>Incompatible materials</b>	Strong acids, Strong oxidizing agents

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

#### Individual protection measures, such as personal protective equipment

<b>Respiratory protection</b>	<ul style="list-style-type: none"><li>• A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.</li></ul>
<b>Eye/Face protection</b>	<ul style="list-style-type: none"><li>• Wear safety glasses with side shields (or goggles)</li><li>• Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material</li><li>• Use appropriate ANSI approved protective eye and face devices. Eye and face protection requirements are outlined in 29 CFR 1910.133 and ANSI Z87.1.</li></ul>
<b>Skin and body protection</b>	<ul style="list-style-type: none"><li>• Wear suitable protective clothing</li><li>• Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact</li></ul>
<b>General Hygiene Considerations</b>	<ul style="list-style-type: none"><li>• Handle in accordance with good industrial hygiene and safety practice</li><li>• Do not eat, drink or smoke when using this product</li></ul>

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Clear to slightly hazy
<b>Color</b>	colorless or slight yellow
<b>Odor</b>	Odorless
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	8.6	solution (10 %)
<b>Melting point/Freezing Point</b>	-10 to 35.5	
<b>Boiling point / boiling range</b>	104 - 116	
<b>Flash point</b>	No information available	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>		

Item # Multi Sodium Thiosulfate Solution 28%-50%

Upper flammability limit (%)	No information available	
Lower flammability limit (%):	No information available	
Vapor pressure	10 mm Hg	@ 91 °C
Vapor density	No information available	
Specific Gravity	1.29-1.50	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point °C	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	10.7-12.5 Pounds per gallon (lb/gal)

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	• Stable under recommended storage conditions
<b>Conditions to avoid</b>	• Elevated temperature
<b>Incompatible materials</b>	• Strong acids • Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	• Thermal decomposition can lead to release of irritating and toxic gases and vapors • Sulfur Oxides (SOx) • Carbon oxides (COx)
<b>Possibility of Hazardous Reactions</b>	• None under normal processing and storage

**11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure

<b>Principle Routes of Exposure</b>	Inhalation, Skin Contact, Eye contact
<b>Inhalation</b>	May cause irritation of respiratory tract. Avoid breathing vapors or mists.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin Contact</b>	May cause skin irritation and/or dermatitis.
<b>Eye contact</b>	Contact with eyes may cause irritation.

Information on toxicological effects

<b>Symptoms</b>	No information available
<b><u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u></b>	
<b>Sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

**Numerical measures of toxicity - Product Information**

**Unknown Acute Toxicity** 28-50% of the mixture consists of ingredient(s) of unknown toxicity

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

30% of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and degradability** No information available.

**Bioaccumulation** No information available

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS**

**Disposal of wastes** • Dispose of in accordance with federal, state and local regulations

• Dispose of hazardous waste in a RCRA licensed facility

**Contaminated packaging** • Do not reuse container

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**15. REGULATORY INFORMATION**

**US Federal Regulations**

**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

**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

**CWA (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)

**CERCLA** This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65** This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

**International Inventories**

Item # Multi Sodium Thiosulfate Solution 28%-50%

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AICS - Australian Inventory of Chemical Substances

**16. OTHER INFORMATION**

<u>NFPA</u>	Health hazards 1	Flammability 0	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 1	Flammability 0	Physical hazards 0	Personal protection B

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Safety Data Sheet	0680
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Version	1
Revision Note	*** Updated value on SDS.

**Disclaimer**

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**End of Safety Data Sheet**