



Safety Data Sheet

Revision Date May-20-2015

Item # Multi

Safety Data Sheet 0680

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

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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	<ul style="list-style-type: none">• Dry chemical, CO₂, water spray or alcohol-resistant foam• Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Unsuitable extinguishing media	<ul style="list-style-type: none">• No information available
Specific hazards arising from the chemical	<ul style="list-style-type: none">• Thermal decomposition can lead to release of irritating and toxic gases and vapors• Sulfur Oxides (SO_x)• Carbon oxides (CO_x)
Protective equipment and precautions for firefighters	<ul style="list-style-type: none">• Wear a self-contained breathing apparatus and chemical protective clothing
Flammable properties	<ul style="list-style-type: none">• No information available
Explosive properties	<ul style="list-style-type: none">• No information available

6. ACCIDENTAL RELEASE MEASURES

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

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- Methods for cleaning up**
- Dike far ahead of liquid spill for later disposal
 - Prevent product from entering drains
 - Take up mechanically, placing in appropriate containers for disposal
 - Soak up with inert absorbent material
 - Pick up and transfer to properly labeled containers
 - Clean contaminated surface thoroughly
- Other Information**
- No information available

7. HANDLING AND STORAGE

- Advice on safe handling**
- Handle in accordance with good industrial hygiene and safety practice
- Storage Conditions**
- Keep away from food, drink and animal feeding stuffs
 - Keep containers tightly closed in a dry, cool and well-ventilated place
 - Protect from freezing
- Incompatible materials**
- 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**
- Respiratory protection**
- 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.
- Eye/Face protection**
- Wear safety glasses with side shields (or goggles)
 - Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material
 - 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.
- Skin and body protection**
- Wear suitable protective clothing
 - Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact
- General Hygiene Considerations**
- Handle in accordance with good industrial hygiene and safety practice
 - Do not eat, drink or smoke when using this product

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- Physical state** Liquid
- Appearance** Clear to slightly hazy
- Color** colorless or slight yellow
- Odor** Odorless
- Odor threshold** No information available

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

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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

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

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

Information on toxicological effects

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

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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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Version	1
Revision Note	*** Updated value on SDS.

Disclaimer

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End of Safety Data Sheet