

# MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

**Material name SODIUM THIOSULFATE SOLUTION, 1.0 N** 

Catalog # 1195 02 Version #

**Revision date** 23-Nov-2009 CAS# Mixture

**Manufacturer information** GFS Chemicals, Inc.

P.O. Box 245 Powell, OH 43065 US www.gfschemicals.com Fax 740-881-5989 Phone 740-881-5501 Toll Free 800-858-9682

Emergency Assistance Chemtrec 800-424-8300

#### 2. Hazards Identification

**Emergency overview** May cause skin and eye irritation.

**OSHA** regulatory status

This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

**Potential health effects** 

**Routes of exposure** Not applicable. **Eyes** May irritate eyes.

Skin May cause skin irritation.

Inhalation Health injuries are not known or expected under normal use. **Ingestion** Ingestion of large amounts may cause nausea and abdominal pain. Ecological injuries are not known or expected under normal use.

**Potential environmental** 

effects

# 3. Composition / Information on Ingredients

Non-hazardous components	CAS #	Percent
WATER	7732-18-5	60 - 80
SODIUM THIOSULFATE, PENTAHYDRATE	10102-17-7	20 - 40

### 4. First Aid Measures

First aid procedures

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists. Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for

breathing. Call a physician if symptoms develop or persist.

**Ingestion** Rinse mouth. If ingestion of a large amount does occur, call a poison control center

immediately.

**General advice** If you feel unwell, seek medical advice (show the label where possible).

## 5. Fire Fighting Measures

Flammable properties No unusual fire or explosion hazards noted. The product is not flammable.

**Extinguishing media** 

Suitable extinguishing Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

media

Material name: SODIUM THIOSULFATE SOLUTION, 1.0 N MSDS US 1/4

Catalog # Version #: 02 Revision date: 11-23-2009 Print date: 11-23-2009

#### **Protection of firefighters**

precautions for firefighters

**Protective equipment and** In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

Cool containers exposed to flames with water until well after the fire is out.

Specific methods In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

#### 6. Accidental Release Measures

**Personal precautions** Keep unnecessary personnel away. Local authorities should be advised if significant spillages

cannot be contained.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods for containment** Methods for cleaning up

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Large Spills: Dike far ahead of spill for later disposal. Use a non-combustible material like

vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination. Following product recovery, flush area with water.

Never return spills in original containers for re-use.

# 7. Handling and Storage

**Handling** Handle and open container with care. Storage Use care in handling/storage.

## 8. Exposure Controls / Personal Protection

Personal protective equipment

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

Rubber gloves. Hand protection

Wear chemical goggles. Eye / face protection

Skin protection No special protective equipment required.

**General hygeine** considerations

Handle in accordance with good industrial hygiene and safety practice.

Not normally needed. **General** 

### 9. Physical & Chemical Properties

**Appearance** Clear. Color Colorless. Odor Odorless. **Odor threshold** Not available. **Physical state** Liquid. **Form** Liquid. 7 - 8 рH

< 32 °F (< 0 °C) **Melting point** Freezing point Not available.

**Boiling point** > 212 °F (> 100 °C) Flash point Not available. **Evaporation rate** Not available. Not available.

**Flammability** Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air,

Not available.

lower, % by volume

Not available.

Vapor pressure Vapor density Not available.

Specific gravity 1.12 **Relative density** 1.12 g/cm3

Solubility (water) completely miscible

**Partition coefficient** 

Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. > 75 % **Percent volatile** 

Molecular weight 248.1800 g/mol **Molecular formula** Na2S2O3.5H2O

# 10. Chemical Stability & Reactivity Information

**Chemical stability** Material is stable under normal conditions. No hazardous self-reactivity.

**Incompatible materials** None known.

**Hazardous decomposition** 

products

# 11. Toxicological Information

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

No hazardous decomposition products are known.

**Further information** This product has no known adverse effect on human health.

# 12. Ecological Information

This product has no known eco-toxicological effects. **Ecotoxicity** 

Micro-organisms Toxicity: LC 50

SODIUM THIOSULFATE,

10102-17-7

Protozoa (Spirostomum ambiguum) 1710 mg/l 24 h Static Mortality

**PENTAHYDRATE** SODIUM THIOSULFATE.

10102-17-7

**PENTAHYDRATE** 

Protozoa (Spirostomum ambiguum) 1700 mg/l 48 h Static Mortality

**Persistence and degradability** Not available.

## 13. Disposal Considerations

**Disposal instructions** This product, in its present state, when discarded or disposed of, is not a hazardous waste

according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA

criteria for hazardous waste. Dispose in accordance with all applicable regulations.

Waste from residues / unused products

Not applicable.

### 14. Transport Information

## DOT

Not regulated as dangerous goods.

# 15. Regulatory Information

**US federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

#### **CERCLA (Superfund) reportable quantity**

None

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Material name: SODIUM THIOSULFATE SOLUTION, 1.0 N Catalog # Version #: 02 Revision date: 11-23-2009 Print date: 11-23-2009

1195

Section 302 extremely hazardous substance

**Section 311 hazardous** 

Yes

No

chemical

#### **Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS	) Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause cancer,

birth defects or other reproductive harm.

#### 16. Other Information

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS®** ratings Health: 0

Flammability: 0 Physical hazard: 1

NFPA ratings Health: 0

> Flammability: 0 Instability: 1

**Disclaimer** The information in the sheet was written based on the best knowledge and experience

currently available. The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in

the text.

Issue date 23-Nov-2009

This data sheet contains changes from the previous version in section(s):

This document has undergone significant changes and should be reviewed in its entirety.

Material name: SODIUM THIOSULFATE SOLUTION, 1.0 N

MSDS US Catalog # Version #: 02 Revision date: 11-23-2009 Print date: 11-23-2009