

# SAFETY DATA SHEET

1. Identification

Product identifier SODIUM THIOSULFATE SOLUTION, 0.1 N

Other means of identification

Product code 736

**Recommended use** professional, scientific and technical activities: other professional, scientific and technical activities

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

**Manufacturer** 

**Company name Address**GFS Chemicals, Inc.
P.O. Box 245
Powell, OH 43065

United States

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**Emergency phone** Emergency Assistance Chemtrec 800-424-9300

number

# 2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

**Label elements** 

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after

handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a

well-ventilated area.

**Response** Wash hands after handling. If inhaled: Remove person to fresh air and keep comfortable for

breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

**Storage** Store away from incompatible materials. Store in a well-ventilated place. Keep container tightly

closed. Store locked up.

**Disposal** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with

applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** None.

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
WATER		7732-18-5	97.39
SODIUM THIOSULFATE, PENTAHYDRATE	SODIUM HYPOSULFITE	10102-17-7	2.6
Other components below reportable levels			0.01

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\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Induce artificial respiration with the aid

of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a

physician if symptoms develop or persist.

Skin contact Remove and isolate contaminated clothing and shoes. For minor skin contact, avoid spreading

material on unaffected skin. Rinse skin with water/shower. Get medical attention if irritation

develops and persists.

Eye contact Rinse with water. If a contact lens is present, DO NOT delay irrigation or attempt to remove the

lens. Continue rinsing. Get medical attention if irritation develops and persists.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Never give anything by Ingestion

mouth to a victim who is unconscious or is having convulsions. Rinse mouth. Do not induce vomiting without advice from poison control center. If ingestion of a large amount does occur, call a poison control center immediately. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve

or other proper respiratory medical device. Get medical attention if symptoms occur.

**Most important** 

symptoms/effects, acute and

delayed

**Indication of immediate** medical attention and special

treatment needed

Treat symptomatically.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

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

Do not use water jet as an extinguisher, as this will spread the fire.

Direct contact with eyes may cause temporary irritation.

protect themselves.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

None known.

Specific hazards arising from the chemical

firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special protective equipment** and precautions for

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

**General fire hazards** 

Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted. May decompose in a fire releasing toxic fumes.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Never return spills in original containers for re-use.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

**Precautions for safe handling** 

Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

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**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure

limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear chemical goggles.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Rubber gloves.

Other Wear suitable protective clothing.

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

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

**General hygiene** considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to

remove contaminants.

### 9. Physical and chemical properties

**Appearance** Clear. Physical state Liquid. **Form** Liquid. Color Colorless. Odor Odorless. Not available. **Odor threshold** 

7 - 8

32 °F (0 °C) estimated Melting point/freezing point Initial boiling point and > 212 °F (> 100 °C)

boiling range

Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit -

upper (%)

Not available.

**Explosive limit - lower** 

(%)

Not available.

**Explosive limit - upper** 

(%)

Not available.

Not available. Vapor pressure Vapor density Not available. **Relative density** Not available.

Solubility(ies)

completely miscible Solubility (water)

**Partition coefficient** (n-octanol/water)

Not available.

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature** Not available. **Viscosity** 

Other information

Density 1.01 g/cm3 **Percent volatile** 97 % estimated

Specific gravity 1.01

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### 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability No hazardous self-reactivity.

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reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

None known. Contact with incompatible materials.

**Incompatible materials** 

None known.

Hazardous decomposition products

No hazardous decomposition products are known.

### 11. Toxicological information

### Information on likely routes of exposure

InhalationNo adverse effects due to inhalation are expected.Skin contactNo adverse effects due to skin contact are expected.Eye contactDirect contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

**Acute toxicity** Not available.

Product Species Test Results

SODIUM THIOSULFATE SOLUTION, 0.1 N (CAS Mixture)

Acute

Inhalation

LC50 Guinea pig 8000 mg/l, 2 Hours estimated

Mouse 12000 mg/l, 2 Hours estimated Rat 23000 mg/l, 2 Hours estimated

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

None known.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not available. **Skin sensitization** None known.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. **Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

Not classified.

**Aspiration hazard** Not available.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude thε

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

SODIUM THIOSULFATE, PENTAHYDRATE (CAS 10102-17-7)

**Aquatic** 

Fish LC50 Western mosquitofish (Gambusia affinis) 24000 mg/l, 96 hours

Persistence and degradabilityNone known.Bioaccumulative potentialNo data available.Mobility in soilNo data available.

**Other adverse effects**No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

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### 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

nstructions)

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

### 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazarc

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

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

SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312** No

**Hazardous chemical** 

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** Not regulated.

(SDWA)

EDWA)

**US state regulations** 

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

**US. Massachusetts RTK - Substance List** 

Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act** 

Not listed.

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#### **US. Pennsylvania Worker and Community Right-to-Know Law**

**Inventory name** 

Not listed

#### **US. Rhode Island RTK**

Not regulated.

### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region

<b>Country (5) or region</b>		• · · · · · · · · · · · · · · · · · · ·
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 Existing Commercial Chemical Substances (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	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

Toxic Substances Control Act (TSCA) Inventory

country(s).

### 16. Other information, including date of preparation or last revision

**Issue date** June-02-2015

Material name: SODIUM THIOSULFATE SOLUTION, 0.1 N

Version # 01

United States & Puerto Rico

**Disclaimer** GFS Chemicals cannot anticipate all conditions under which this information and its product, or the

products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

On inventory (yes/no)\*

Yes

sheet was written based on the best knowledge and experience currently available.

**Revision Information** Product and Company Identification: Alternate Trade Names

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

Transport Information: Material Transportation Information

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