

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** Sodium Hydrosulfite

**Other means of identification**

**Product No.:** 3712

**Recommended use and restriction on use**

**Recommended use:** Not available.

**Restrictions on use:** Not known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company Name:** Avantor Performance Materials, Inc.  
**Address:** 3477 Corporate Parkway, Suite 200  
Center Valley, PA 18034

**Telephone:** Customer Service: 855-282-6867

**Fax:**  
**Contact Person:** Environmental Health & Safety  
**e-mail:** info@avantormaterials.com

**Emergency telephone number:**

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

## 2. Hazard(s) identification

**Hazard classification**

**Physical hazards**

Self-heating substances and mixtures Category 1

**Health hazards**

Acute toxicity (Oral) Category 4

**Label elements**

**Hazard symbol:**



**Signal word:** Danger

**Hazard statement:** Self-heating; may catch fire.  
Harmful if swallowed.

**Precautionary statement**

**Prevention:** Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face

protection.

- Response:** In case of fire: Evacuate area. If swallowed: Call a poison center/doctor/.../ if you feel unwell. Rinse mouth.
- Storage:** Store in a well-ventilated place. Keep cool. Protect from sunlight. Maintain air gap between stacks/pallets. Store away from other materials.
- 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.

**Other hazards which do not result in GHS classification:** None.

### 3. Composition/information on ingredients

#### Substances

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
SODIUM HYDROSULFITE		7775-14-6	90 - 100%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

- General information:** Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
- Ingestion:** Call a POISON CENTER or doctor/physician if you feel unwell.
- Inhalation:** Move to fresh air. Get medical attention if symptoms occur.
- Skin contact:** Rinse with water. Call a POISON CENTER or doctor/physician if you feel unwell.
- Eye contact:** Rinse cautiously with water for several minutes. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

**Symptoms:** Harmful if swallowed.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically. For breathing difficulties, oxygen may be necessary. Symptoms may be delayed.

### 5. Fire-fighting measures

**General fire hazards:** No unusual fire or explosion hazards noted.

#### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Carbon dioxide or dry powder. Dry sand.

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** Self-heating; may catch fire. Contact with combustible material may cause fire.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** Move containers from fire area if you can do so without risk.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Keep unauthorized personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. See Section 8 of the MSDS for Personal Protective Equipment.

**Methods and material for containment and cleaning up:** Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

**Notification Procedures:** Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

**Environmental precautions:** Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

**7. Handling and storage**

**Precautions for safe handling:** Do not taste or swallow. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

**Conditions for safe storage, including any incompatibilities:** Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from other materials.

**8. Exposure controls/personal protection**

**Control parameters**

**Occupational exposure limits**

None of the components have assigned exposure limits.

**Appropriate engineering controls**

No data available.

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

**General information:** 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. An eye wash and safety shower must be available in the immediate work area.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

<b>Skin protection</b>	
<b>Hand protection:</b>	Wear protective gloves.
<b>Other:</b>	Wear suitable protective clothing.
<b>Respiratory protection:</b>	In case of inadequate ventilation, use respiratory protection.
<b>Hygiene measures:</b>	Avoid contact with eyes. Observe good industrial hygiene practices. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	Solid
<b>Form:</b>	Crystalline Powder.
<b>Color:</b>	White
<b>Odor:</b>	Odor of sulfur dioxide
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/freezing point:</b>	52 °C Decomposes
<b>Initial boiling point and boiling range:</b>	No data available.
<b>Flash Point:</b>	No data available.
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	2.19
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	No data available.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>Other information</b>	
<b>Molecular weight:</b>	176.1 g/mol (H <sub>2</sub> O <sub>4</sub> S <sub>2</sub> .2Na)

## 10. Stability and reactivity

<b>Reactivity:</b>	Self-heating material - may catch fire if exposed to heat.
<b>Chemical stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid:</b>	Moisture. Heat, sparks, flames. Contact with incompatible materials.

**Incompatible materials:** Water. Moisture. Strong oxidizing agents. Strong acids.

**Hazardous decomposition products:** Oxides of sulfur.

## 11. Toxicological information

### Information on likely routes of exposure

**Ingestion:** Harmful if swallowed.

**Inhalation:** No data available.

**Skin contact:** May be harmful in contact with skin. May cause irritation.

**Eye contact:** May irritate eyes.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

##### Oral

**Product:** No data available.

##### Dermal

**Product:** No data available.

##### Inhalation

**Product:** No data available.

##### Repeated dose toxicity

**Product:** No data available.

##### Skin corrosion/irritation

**Product:** No data available.

##### Serious eye damage/eye irritation

**Product:** No data available.

##### Respiratory or skin sensitization

**Product:** No data available.

##### Carcinogenicity

**Product:** No data available.

##### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

##### US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

##### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

**Germ cell mutagenicity**

**In vitro**  
Product: No data available.

**In vivo**  
Product: No data available.

**Reproductive toxicity**

Product: No data available.

**Specific target organ toxicity - single exposure**

Product: No data available.

**Specific target organ toxicity - repeated exposure**

Product: No data available.

**Aspiration hazard**

Product: No data available.

**Other effects:** No data available.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**  
Product: No data available.

**Aquatic invertebrates**  
Product: No data available.

**Chronic hazards to the aquatic environment:**

**Fish**  
Product: No data available.

**Aquatic invertebrates**  
Product: No data available.

**Toxicity to Aquatic Plants**  
Product: No data available.

**Persistence and degradability**

**Biodegradation**  
Product: There are no data on the degradability of this product.

**BOD/COD ratio**  
Product: No data available.

**Bioaccumulative potential**

**Bioconcentration factor (BCF)**  
Product: No data available on bioaccumulation.

**Partition coefficient n-octanol / water (log Kow)**  
Product: No data available.

**Mobility in soil:** The product is water soluble and may spread in water systems.

**Other adverse effects:** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated packaging:** Since emptied containers retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

#### DOT

UN number:	UN 1384
UN proper shipping name:	Sodium dithionite
Transport hazard class(es)	
Class(es):	4.2
Label(s):	4.2
Packing group:	II
Marine Pollutant:	No

#### IMDG

UN number:	UN 1384
UN proper shipping name:	SODIUM DITHIONITE
Transport hazard class(es)	
Class(es):	4.2
Label(s):	4.2
EmS No.:	F-A, S-J
Packing group:	II
Marine Pollutant:	No

#### IATA

UN number:	UN 1384
Proper Shipping Name:	Sodium dithionite
Transport hazard class(es):	
Class(es):	4.2
Label(s):	4.2
Marine Pollutant:	No
Packing group:	II

### 15. Regulatory information

#### US federal regulations

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**  
 None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**  
 None present or none present in regulated quantities.

**Superfund amendments and reauthorization act of 1986 (SARA)**

**Hazard categories**

Acute (Immediate)  Chronic (Delayed)  Fire  Reactive  Pressure Generating

**SARA 302 Extremely hazardous substance**

None present or none present in regulated quantities.

**SARA 304 Emergency release notification**

None present or none present in regulated quantities.

**SARA 311/312 Hazardous chemical**

Chemical identity                      Threshold Planning Quantity

**SARA 313 (TRI reporting)**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

**US state regulations**

**US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

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

SODIUM HYDROSULFITE      Listed

**US. Massachusetts RTK - Substance List**

SODIUM HYDROSULFITE      Listed

**US. Pennsylvania RTK - Hazardous Substances**

SODIUM HYDROSULFITE      Listed

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

**Inventory Status:**

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EU EINECS List:	On or in compliance with the inventory
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

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



**NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**W** : Water reactive

**Issue date:** 04-08-2014

**Revision date:** No data available.

**Version #:** 1.0

**Further information:** No data available.

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