

Section 1. Product and Company Identification

**Product Name** Sodium Hydrosulfite  
**CAS Number** 7775-14-6

**Parchem - fine & specialty chemicals**  
**415 Huguenot Street**  
**New Rochelle, NY 10801**  
☎ (914) 654-6800 ☎ (914) 654-6899  
🌐 [parchem.com](http://parchem.com) ✉ [info@parchem.com](mailto:info@parchem.com)

**EMERGENCY RESPONSE NUMBER**  
CHEMTEL  
Toll Free US & Canada: 1 (800) 255-3924  
All other Origins: 1 (813) 248-0585  
Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**  
**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Self-heating substances and mixtures (Category 1), H251  
Acute toxicity, Oral (Category 4), H302  
Acute aquatic toxicity (Category 2), H401  
Chronic aquatic toxicity (Category 2), H411

**GHS Label Elements**

**Pictograms:**



**Signal word:** DANGER

**Hazard and precautionary statements**

**Hazard Statements**

H251 Self-heating: may catch fire.  
H302 Harmful if swallowed.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P235 + P410 Keep cool. Protect from sunlight.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/ face protection.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.





P330 Rinse mouth.  
P391 Collect spillage.  
P407 Maintain air gap between stacks/ pallets.  
P410 Protect from sunlight.  
P420 Store away from other materials.  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS:** Contact with acids liberates toxic gas.

### Section 3. Composition / Information on Ingredients

**Common Name** Sodium Hydrosulfite  
**Synonym(s)** Sodium dithionite; Sodium hypodisulfite  
**Formula**  $\text{Na}_2\text{O}_4\text{S}_2$   
**CAS Number** 7775-14-6

| COMPONENT           | CAS NUMBER | CONCENTRATION |
|---------------------|------------|---------------|
| Sodium Hydrosulfite | 7775-14-6  | ≤ 100%        |

### Section 4. First Aid Measures

#### Description of first-aid measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.  
Move out of dangerous area.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.  
Consult a physician.

**Skin contact:** Wash off with soap and plenty of water. Consult a physician.

**Eye contact:** Flush eyes with water as a precaution.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water.  
Consult a physician.

**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling and/or in section 11

**Indication of any immediate medical attention and special treatment needed:** No data available

### Section 5. Firefighting Measures

#### Extinguishing media

**Suitable extinguishing media:** Dry powder

**Special hazards arising from the substance or mixture:** Sulphur oxides, Sodium oxides

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** Addition of small amounts of water may cause self-ignition.





## Section 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up:** Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

**Reference to other sections:** For disposal see section 13.

## Section 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids. Keep in a dry place. Air-, heat-, and moisture-sensitive. Handle and store under inert gas. Keep in a dry place.

## Section 8. Exposure Controls / Personal Protection

### Control parameters

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

### Exposure controls

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

**Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.



**Body Protection:** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Section 9. Physical and Chemical Properties

##### Information on basic physical and chemical properties

**Form:** powder

**Color:** white

**Odor:** No data available

**Odor Threshold:** No data available

**pH:** 7.0 - 9 at 50 g/l at 20°C (68°F)

**Melting point/freezing point:** 300°C (572°F)

**Initial boiling point and boiling range:** No data available

**Flash point:** No data available

**Evaporation rate:** No data available

**Flammability (solid, gas):** No data available

**Upper/lower flammability or explosive limits:** No data available

**Vapor pressure:** No data available

**Vapor density:** No data available

**Relative density:** 2.500 g/cm<sup>3</sup> at 20°C (68°F)

**Water solubility:** No data available

**Partition coefficient: octanol/water:** log Pow: < -4.7

**Auto-ignition temperature:** The substance or mixture is classified as self-heating with the category 1.

**Decomposition temperature:** No data available

**Viscosity:** No data available

**Explosive properties:** No data available

**Oxidizing properties:** No data available

**Other safety information:** Bulk density 1,250 kg/m<sup>3</sup>

#### Section 10. Stability and Reactivity

**Reactivity:** No data available

**Chemical stability:** May decompose on exposure to air and moisture. Stable under recommended storage conditions.

**Possibility of hazardous reactions:** No data available





**Conditions to avoid:** Do not allow water to enter container because of violent reaction. Avoid moisture. Heat.

**Incompatible materials:** Strong oxidizing agents, acids, Water

**Hazardous decomposition products:** Other decomposition products - No data available. In the event of fire: see section 5

#### Section 11. Toxicological Information

##### Information on toxicological effects

**Acute toxicity:** No data available

**Skin corrosion/irritation:** No data available

**Serious eye damage/eye irritation:** No data available

**Respiratory or skin sensitization:** No data available

**Germ cell mutagenicity:** No data available

##### Carcinogenicity

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** No data available

**Specific target organ toxicity - single exposure:** No data available

**Specific target organ toxicity - repeated exposure:** No data available

**Aspiration hazard:** No data available

##### Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### Section 12. Ecological Information

##### Toxicity

Toxicity to fish LC50 - *Leuciscus idus* (Golden orfe) - 10 - 100 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - *Daphnia magna* (Water flea) - 10 - 100 mg/l - 48 h

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available





**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

#### Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

#### Section 14. Transport Information

**DOT (US)**

**UN number:** UN1384

**Class:** 4.2

**Packing group:** II

**Proper shipping name:** Sodium dithionite

**Reportable Quantity (RQ):**

**Marine pollutant:** No

**Poison Inhalation Hazard:** No

**IMDG**

**UN number:** UN1384

**Class:** 4.2

**Packing group:** II

**EMS-No:** F-A, S-J

**Proper shipping name:** SODIUM DITHIONITE

**Marine pollutant:** No

**IATA**

**UN number:** UN1384

**Class:** 4.2

**Packing group:** II

**Proper shipping name:** Sodium dithionite

#### Section 15. Regulatory Information

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Reactivity Hazard, Acute Health Hazard





**Massachusetts Right to Know Components**

| Component         | CAS-No.   | Revision Date |
|-------------------|-----------|---------------|
| Sodium dithionite | 7775-14-6 | 1993-04-24    |

**Pennsylvania Right to Know Components**

| Component         | CAS-No.   | Revision Date |
|-------------------|-----------|---------------|
| Sodium dithionite | 7775-14-6 | 1993-04-24    |

**New Jersey Right To Know Components**

| Component         | CAS-No.   | Revision Date |
|-------------------|-----------|---------------|
| Sodium dithionite | 7775-14-6 | 1993-04-24    |

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 3/1/2016

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