



# SAFETY DATA SHEET

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## SODIUM HYDROSULFITE

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Sodium Hydrosulfite

**OTHER/GENERIC NAMES:** Disodium dithionate, Sodium dithionite

**PRODUCT USE AND RESTRICTIONS ON USE:** Whitening agent.

**SUPPLIER:** Esseco USA LLC  
4 Gatehall Drive  
Parsippany, NJ 07054

**FOR MORE INFORMATION CALL:** 973-267-3330  
(Monday-Friday, 9:00am-4:30pm)

**FOR EMERGENCY IN USA, CALL CHEMTREC:** 800-424-9300  
(24 Hours/Day, 7 Days/Week)

### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Self-Heating Substances and Mixtures Category 1  
Eye Irritant Category 2

#### Label Elements:



#### DANGER!

Self-Heating: May catch fire.  
Causes serious eye irritation.

Keep cool. Protect from sunlight.  
Wash thoroughly after handling.  
Wear protective gloves, protective clothing, and eye protection.  
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 attention.  
Maintain air gap between stacks or pallets.  
Store away from other materials.



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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>WEIGHT %</u>
Sodium Hydrosulfite	7775-14-6	≥90

Trace impurities and additional material names not listed above may appear in Section 15 of this SDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons. The exact concentrations are a trade secret.

### 4. FIRST AID MEASURES

<b>SKIN:</b>	Wash skin with plenty of soap and water. Get medical attention if irritation occurs. Launder contaminated clothing before reuse.
<b>EYES:</b>	Immediately flush eyes with large quantities of water for several minutes, while holding the eyelids apart. Remove contact lenses if easy to do so. Continue rinsing. Get medical attention if irritation persists.
<b>INHALATION:</b>	Remove to fresh air. Get immediate medical attention if signs of suffocation, irritation or other symptoms develop.
<b>INGESTION:</b>	Rinse mouth with water and give 1 glass of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms develop.
<b>MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:</b>	May cause moderate eye irritation. May cause severe and possibly fatal allergic reactions if inhaled or swallowed by some asthmatics and other 'sulfite sensitive' individuals. Reacts with acids to form toxic and irritating sulfur dioxide gas.
<b>INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NEEDED:</b>	Immediate medical attention is required for allergic respiratory reaction. Treat symptomatically. Note potential for anaphylactic shock with allergic individuals.

### 5. FIRE FIGHTING MEASURES

#### SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA:

Use large quantities of water. Do not use water spray.

#### SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Self-inflammation possible by water spray or water in small quantities. Material may accelerate the burning of other combustible materials. Contact with moist air or water may liberate toxic gases such as sulfur dioxide.

#### SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTING:

Wear NIOSH-approved self-contained breathing apparatus to protect against any release of toxic and/or irritating fumes. Skin and eye protection should also be provided. Use water to keep fire-exposed containers cool, and to knock down vapors and gases.



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### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:** Provide ventilation to clear sulfur dioxide fumes which may be generated by contact with water. Wear appropriate personal protective equipment.

**ENVIRONMENTAL PRECAUTIONS:** Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Promptly shovel or sweep up material with minimum dusting and shovel into an empty container with a cover. Rinse spill area with plenty of water.

### 7. HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** (See section 8 for recommended personal protective equipment.)

Avoid contact with skin, eyes and clothing. Do not breathe dust. Use with adequate ventilation. Do not eat or drink in the work area. Wash thoroughly after handling. Do not open warm or swollen product containers.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:**

Store in a cool, dry, well-ventilated area away from acids, oxidizing agents, and other incompatible materials. Keep container closed when not in use and protect from physical damage. Protect against moisture. Store away from all heat sources and combustible materials.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

<u>INGREDIENT NAME</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER LIMIT</u>
Sodium Hydrosulfite	None	None	None

**OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:**

Sulfur Dioxide: OSHA TWA = 5 ppm  
ACGIH STEL = 0.25 ppm

**APPROPRIATE ENGINEERING CONTROLS:**

Local exhaust if dusty conditions exist or if there is a release of sulfur dioxide gas. Keep incompatible materials out of hoods, ducts, etc.

#### INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

**SKIN PROTECTION:** For handling dry material, wear butyl rubber gloves and full work clothing, including long-sleeved shirt and trousers. When handling solutions and there is prolonged or repeated contact, wear impervious gloves, clothing and boots.

**EYE PROTECTION:** Wear chemical safety goggles.



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**RESPIRATORY PROTECTION:** Where required, use a NIOSH-approved respirator for dust, and /or sulfur dioxide, as conditions indicate. Some exposures may require a NIOSH-approved self-contained breathing apparatus or supplied-air respirator. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice.

**ADDITIONAL RECOMMENDATIONS:** Eyewash and safety shower are recommended.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	White or grayish-white granules or crystals.	
<b>PHYSICAL STATE:</b>	Solid.	
<b>ODOR:</b>	Faint sulfurous odor.	
<b>ODOR THRESHOLD:</b>	Not determined.	
<b>MOLECULAR WEIGHT:</b>	Not determined.	
<b>CHEMICAL FORMULA:</b>	Not determined.	
<b>RELATIVE DENSITY (water = 1.0):</b>	0.8-1.1	
<b>SOLUBILITY IN WATER (weight %):</b>	19.1%	
<b>pH:</b>	7.5-10 (1%)	
<b>INITIAL BOILING POINT/RANGE:</b>	Not applicable.	
<b>MELTING/FREEZING POINT:</b>	52°C (125.6°F)	
<b>VAPOR PRESSURE:</b>	Not applicable.	
<b>VAPOR DENSITY (air = 1.0):</b>	Not applicable.	
<b>EVAPORATION RATE:</b>	Not applicable.	<b>COMPARED TO:</b> Not applicable.
<b>% VOLATILES:</b>	Not applicable.	
<b>PARTITION COEFFICIENT (N-OCTANOL/WATER):</b>	Log Kow= <-4.7	
<b>VISCOSITY:</b>	Not applicable.	
<b>FLASH POINT:</b>	Not applicable.	
<b>FLASH POINT METHOD:</b>	Not applicable.	
<b>AUTOIGNITION TEMPERATURE:</b>	>100°C (>212°F)	
<b>UPPER FLAME LIMIT (volume % in air):</b>	Not applicable.	
<b>LOWER FLAME LIMIT (volume % in air):</b>	Not applicable.	
<b>DECOMPOSITION TEMPERATURE:</b>	>90°C (>194°F)	
<b>FLAMMABILITY (SOLID, GAS)</b>	Combustible solid but not explosive	
<b>OSHA FLAMMABILITY CLASS:</b>	Not applicable.	

### 10. STABILITY AND REACTIVITY

**REACTIVITY:**  
Not normally reactive

**CHEMICAL STABILITY:**  
Normally stable.

**POSSIBILITY OF HAZARDOUS REACTIONS:**  
Reacts with acids, oxidizing agents and damp air. Self inflammation possible by spray waters or water in small quantities. On contact with water, gaseous decomposition products are formed, which cause build-up of pressure in tightly closed containers.

**CONDITIONS TO AVOID:**  
Avoid elevated temperatures and moisture.



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### INCOMPATIBILITIES:

Oxidizing agents, acids, water, air, sodium chlorite, sodium nitrite, ammonium nitrate, sodium peroxide, hydrogen peroxide and any combustible materials.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Sulfur dioxide gas.

## 11. TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH HAZARDS

#### ACUTE EFFECTS OF EXPOSURE:

**SKIN:** Dust, solutions or mist may cause skin irritation from repeated or prolonged contact.

**EYES:** Dust, solutions or mist may cause moderate irritation to the eyes.

**INHALATION:** Inhalation of product dust or mist may irritate the respiratory tract. May cause severe or deadly allergic reactions in some asthmatics and sulfite sensitive individuals. Possible signs and symptoms of allergic reactions include bronchoconstriction, sweating, flushing, hives, rapid heart rate, decreased blood pressure, and anaphylaxis. Contact with acids releases sulfur dioxide gas which may be harmful or deadly if inhaled.

**INGESTION:** May irritate the gastrointestinal tract. May cause severe or deadly allergic reactions in some asthmatics and sulfite sensitive individuals. Large doses may cause violent colic and diarrhea, circulatory disturbances, central nervous system depression, and even death.

**CHRONIC EFFECTS:** None known.

Ingredients found on one of the three OSHA designated carcinogen lists are listed below.

<u>INGREDIENT NAME</u>	<u>NTP STATUS</u>	<u>IARC STATUS</u>	<u>OSHA LIST</u>
No ingredients listed in this section.	----	----	----

### NUMERICAL MEASURES OF TOXICITY:

#### Immediate (Acute) Effects:

Sodium Hydrosulfite - LD<sub>50</sub> (oral, rat) = 2500 mg/kg, LC<sub>50</sub> (inhalation, rat) = >5.5 mg/L/4hr (no mortality), LD<sub>50</sub> (dermal, rat) = >2000 mg/kg

#### Delayed (Subchronic and Chronic) Effects:

Data not available.

#### Other Data:

None

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY:

The following ecotoxicity data is available for Sodium Hydrosulfite:

Leuciscus idus LC50 96 hr.	62.3 mg/l
Daphnia magna EC50 48 hr.	98.31



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**PERSISTENCE AND DEGRADABILITY:**

No data available

**BIOACCUMULATIVE POTENTIAL:**

No data available

**MOBILITY IN SOIL:**

No data available

**OTHER ADVERSE EFFECTS:**

No data available.

### 13. DISPOSAL CONSIDERATIONS

**RCRA**

Is the unused product a RCRA hazardous waste if discarded? No

If yes, the RCRA ID number is: Not applicable.

**OTHER DISPOSAL CONSIDERATIONS:**

Dispose of in accordance with applicable Federal, State and Local regulations.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

### 14. TRANSPORT INFORMATION

US DOT HAZARD CLASS: 4.2, PG II  
US DOT ID NUMBER: UN1384  
PROPER SHIPPING NAME: Sodium Hydrosulfite

For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

### 15. REGULATORY INFORMATION

**TOXIC SUBSTANCES CONTROL ACT (TSCA)**

TSCA INVENTORY STATUS: All components are listed on TSCA Inventory of Chemical Substances.  
OTHER TSCA ISSUES: None.

**SARA TITLE III/CERCLA**

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

<u>INGREDIENT NAME</u>	<u>SARA/CERCLA RQ (lb)</u>	<u>SARA EHS TPQ (lb)</u>
No ingredients listed in this section.	----	----

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee. Many





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states have more stringent regulations. Report all spills in accordance with local, state and federal regulations.

**SECTION 311 HAZARD CLASS:** See OSHA Hazard Classification in Section 2.

**SARA 313 TOXIC CHEMICALS:**

The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

<u>INGREDIENT NAME</u>	<u>COMMENT</u>
No ingredients listed in this section.	----

**STATE RIGHT-TO-KNOW**

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

<u>INGREDIENT NAME</u>	<u>WEIGHT %</u>	<u>COMMENT</u>
No ingredients listed in this section.	----	----

**CALIFORNIA PROPOSITION 65**

This product does not contain any ingredients known to the State of California to cause cancer and/or reproductive harm.

**ADDITIONAL REGULATORY INFORMATION:**

None

**FOREIGN CHEMICAL CONTROL INVENTORY STATUS:**

Listed on Canadian DSL, Australian AICS, Phillipines PICCS, Chinese IECSC, Japanese MITI, Korean KECL, and EU EINECS.

**16. OTHER INFORMATION**

**CURRENT ISSUE DATE:** January, 2022  
**PREVIOUS ISSUE DATE:** April, 2017

**CHANGES TO SDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:**

Comprehensive review.

**OTHER INFORMATION:** None.

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