

# Material Safety Data Sheet



## Sodium Sulfite

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Sodium Sulfite

**OTHER/GENERIC NAMES:** SULFTECH<sup>®</sup>, technical, food grade and photographic grade Sodium Sulfite.

**PRODUCT USE:** Paper manufacture, food additive, water treatment, waste treatment, other industrial processes.

**MANUFACTURER:** Esseco General Chemical  
90 East Halsey Road  
Parsippany, NJ 07054  
USA

**FOR MORE INFORMATION CALL:** 973-515-1840  
(Monday-Friday, 9:00am-4:30pm)

**IN CASE OF EMERGENCY CALL:** 800-631-8050 or  
(24 Hours/Day, 7 Days/Week) 973-515-0900  
(Outside of USA)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>WEIGHT %</u>
Sodium sulfite	7757-83-7	96
Sodium sulfate	7757-82-6	<4

Trace impurities and additional material names not listed above may appear in Section 15 of this MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

**OSHA Hazard Communication Standard:** *This product is considered hazardous under the OSHA Hazard Communication Standard.*

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Odorless, white to pale yellow crystals or powder which may irritate the skin. May cause irritation and/or burns to the eyes. Harmful if swallowed or inhaled. 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.

#### POTENTIAL HEALTH HAZARDS

**SKIN:** Dust or mist may cause skin irritation from prolonged contact. Solutions will cause skin irritation.

**EYES:** Dust or mist may irritate or burn the eyes. Solutions will cause irritation or burns to the eyes.

**INHALATION:** Inhalation of dust or mist may irritate the respiratory tract.

**INGESTION:** Ingestion may irritate the gastrointestinal tract. Estimated to be moderately toxic. May cause severe allergic reactions in some asthmatics. Large doses may cause violent colic and diarrhea, circulatory disturbances, central nervous system depression, and even death.



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**DELAYED EFFECTS:** Sodium sulfite has been demonstrated to be mutagenic in microbial systems; however, it is not mutagenic in studies involving insects and is not considered to present a mutagenic threat to multicell organisms, (i.e., animals, humans).

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.			

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#### **4. FIRST AID MEASURES**

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**SKIN:** Immediately wash skin with plenty of soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if irritation persists.

**EYES:** Flush eyes immediately with water for at least 15 minutes. Get medical attention.

**INHALATION:** Promptly remove to fresh air. Get immediate medical attention if signs of suffocation, irritation or other symptoms develop.

**INGESTION:** If conscious, immediately give a large quantity of water or milk and induce vomiting by touching finger to back of throat. Get immediate medical attention.

**ADVICE TO PHYSICIAN:** Treat symptomatically. Note potential for anaphylactic shock with allergic individuals.

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#### **5. FIRE FIGHTING MEASURES**

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##### **FLAMMABLE PROPERTIES**

<b>FLASH POINT:</b>	Not flammable
<b>FLASH POINT METHOD:</b>	Not applicable
<b>AUTOIGNITION TEMPERATURE:</b>	Not applicable
<b>UPPER FLAME LIMIT (volume % in air):</b>	Not applicable
<b>LOWER FLAME LIMIT (volume % in air):</b>	Not applicable
<b>FLAME PROPAGATION RATE (solids):</b>	Not applicable
<b>OSHA FLAMMABILITY CLASS:</b>	Not applicable

##### **EXTINGUISHING MEDIA:**

Material is not flammable. Use extinguishing media appropriate for material in surrounding fire.

##### **UNUSUAL FIRE AND EXPLOSION HAZARDS:**

None.

##### **SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:**

Wear NIOSH-approved self-contained breathing apparatus. Use water-spray to keep containers cool, and to knock down fumes.



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**6. ACCIDENTAL RELEASE MEASURES**

**IN CASE OF SPILL OR OTHER RELEASE:** (See section 8 for recommended personal protective equipment.)  
Promptly sweep up material with minimum dusting and shovel into an empty container with a cover. Cautiously spray residue with plenty of water. Provide ventilation to clear sulfur dioxide fumes which may be generated by the sodium sulfite component.

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

**7. HANDLING AND STORAGE**

**NORMAL HANDLING:** (See section 8 for recommended personal protective equipment.)  
Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not eat or drink in the work area. Use normal personal hygiene and housekeeping. Keep away from acids and oxidizing agents.

**STORAGE RECOMMENDATIONS:**  
Store in a cool, dry, well-ventilated area away from acids and oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS:**  
Local exhaust if dusty conditions exist or if there is a release of sulfur dioxide gas. Do not use in unventilated spaces.

**PERSONAL PROTECTIVE EQUIPMENT**

**SKIN PROTECTION:** For handling dry material, wear cotton 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 a hard hat (or other head covering) and chemical safety goggles. Do not wear contact lenses.

**RESPIRATORY PROTECTION:** Where required, use a NIOSH-approved respirator for dust, mist and/or sulfur dioxide gas, as conditions indicate. Some exposures may require a NIOSH-approved self-contained breathing apparatus or supplied-air respirator.

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

**EXPOSURE GUIDELINES**

<u>INGREDIENT NAME</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER LIMIT</u>
No ingredients listed in this section.			

<sup>1</sup> = Limit established by General Chemical Corporation.  
<sup>2</sup> = Workplace Environmental Exposure Level (AIHA).  
<sup>3</sup> = Biological Exposure Index (ACGIH).



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

Sulfur dioxide: OSHA TWA = 5 ppm  
ACGIH TLV = 2 ppm  
ACGIH STEL = 5 ppm

**9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE:	White to pale yellow crystals or powder.
PHYSICAL STATE:	Solid.
MOLECULAR WEIGHT:	126.04.
CHEMICAL FORMULA:	Na <sub>2</sub> SO <sub>3</sub>
ODOR:	Odorless.
SPECIFIC GRAVITY (water = 1.0):	2.63
SOLUBILITY IN WATER (weight %):	17% at 50°F; 28% at 92°F
pH:	5% solution - 9.8
BOILING POINT:	Not applicable.
MELTING POINT:	Decomposes at 1652°F
VAPOR PRESSURE:	Not applicable.
VAPOR DENSITY (air = 1.0):	Not applicable.
EVAPORATION RATE:	Not applicable. COMPARED TO: Not applicable
% VOLATILES:	Not applicable.
FLASH POINT:	Not flammable.

(Flash point method and additional flammability data are found in Section 5.)

**10. STABILITY AND REACTIVITY**

**NORMALLY STABLE? (CONDITIONS TO AVOID):**

Normally stable. Avoid high temperatures (at decomposition, 1652°F); yields sulfur dioxide gas and hazardous residue.

**INCOMPATIBILITIES:**

Strong oxidizers: causes vigorous exothermic reactions.  
Acids: releases sulfur dioxide gas.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Sulfur dioxide and sodium sulfide residue.

**HAZARDOUS POLYMERIZATION:**

Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**IMMEDIATE (ACUTE) EFFECTS:**

Sodium sulfite - LD<sub>50</sub> (oral, mouse) = 820 mg/kg

**DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:**

Sodium sulfite has been demonstrated to be mutagenic in microbial systems; however, it is not mutagenic in studies involving insects and is not considered to present a mutagenic threat to multicell organisms.



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**OTHER DATA:**  
None

**12. ECOLOGICAL INFORMATION**

For Sodium sulfite:  
2600 ppm/24, 48 & 96 hr/mosquito fish/TL<sub>m</sub>/fresh water  
Biological Oxygen Demand (BOD): 0.12 lb/lb, instantaneous

**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: Not regulated.  
US DOT ID NUMBER: Not applicable.  
PROPER SHIPPING NAME: Not applicable.

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.



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**SECTION 311 HAZARD CLASS:** Immediate.

**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.

**INGREDIENT NAME**

**COMMENT**

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.

**INGREDIENT NAME**

**WEIGHT %    COMMENT**

No ingredients listed in this section.

**ADDITIONAL REGULATORY INFORMATION:**

None

**WHMIS CLASSIFICATION (CANADA):**

D2A

**FOREIGN CHEMICAL CONTROL INVENTORY STATUS:**

Listed on Canadian DSL and EU EINECS.

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**16. OTHER INFORMATION**

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**CURRENT ISSUE DATE:** April, 2003

**PREVIOUS ISSUE DATE:** February, 2002

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

Change in company name.

**OTHER INFORMATION:** This product is not for drug use. Only Food Grade material is for use as a food additive.