

MATERIAL SAFETY DATA SHEET

Trade Name: Sodium Sulphite

Section 01 - Chemical And Product And Company Information

Product Identifier Sodium Sulphite, 95-97%
Sodium Sulphite, Catalyzed
Product Use Bleaching operations, reducing agent in the manufacture of dyes,
photographic developers and fixers, food additive, water treatment
dechlorinating agent

Section 02 - Composition / Information on Ingredients

Hazardous Ingredients..... 95-97%:
Sodium Sulphite >97%
Catalyzed:
Sodium Sulphite >95%
CAS Number.....95-97%:
Sodium Sulphite7757-83-7
Catalyzed:
Sodium Sulphite7757-83-7
Synonym (s)..... Disodium sulfite, sodium sulfite

Section 03 - Hazard Identification

Inhalation..... Inhalation of dust may irritate respiratory tract.
Skin Contact / Absorption..... Dust may cause skin irritation from prolonged contact. Solutions
will irritate skin.
Eye Contact..... Dust may irritate or burn eyes. Solutions will irritate or burn eyes.
Ingestion..... Ingestion may irritate gastrointestinal tract. May cause severe
allergic reaction in some asthmatics and sulphite sensitive
individuals. Large doses may cause violent colic and diarrhea,
circulatory disturbances, central nervous system depression and
even death.
Exposure Limits..... None established for sodium sulphite. The decomposition product
of sulphur dioxide has the following limits:

Section 04 - First Aid Measures

Inhalation..... Remove victim to fresh air. Give artificial respiration only if
breathing has stopped. If breathing is difficult, give oxygen. Seek
medical attention if irritation persists.
Skin Contact / Absorption..... Remove contaminated clothing. Wash affected area with soap and
water. Seek medical attention if irritation occurs or persists.
Eye Contact..... Flush immediately with water for at least 20 minutes. Forcibly hold
eyelids apart to ensure complete irrigation of eye tissue. Seek
immediate medical attention.
Ingestion..... If conscious, immediately give 2 to 4 glasses of water or milk and
induce vomiting under medical supervision. Get immediate
medical attention.
Additional Information..... Treat symptomatically. Note potential for anaphylactic shock with
allergic individuals.

Section 05 - Fire Fighting

Conditions of Flammability	Non-flammable
Means of Extinction	Product does not burn. Where fire is involved, use any fire fighting agent appropriate for surrounding material; use water spray to cool fire-exposed surfaces.
Flash Point	Not applicable
Auto-ignition Temperature	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Hazardous Combustible Products	May yield sulphur dioxide gas upon decomposition at 900°C.
Special Fire Fighting Procedures	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
Explosion Hazards	Non-explosive

Section 06 - Accidental Release Measures

Leak / Spill	Wear appropriate personal protective equipment if required. Ventilate area. Stop or reduce leak if safe to do so. Prevent material from entering sewers. Flush with water to remove any residue. Cautiously spray residue with plenty of water. Provide ventilation to clear sulphur dioxide fumes which may form.
Deactivating Materials	Not available

Section 07 - Handling and Storage

Handling Procedures	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.
Storage Requirements	Store in a cool, dry area and away from acids or oxidizers. Keep container closed. Protect from physical damage.

Section 08 - Personal Protection and Exposure Controls

Protective Equipment

Eyes	Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.
Respiratory	If dusty conditions prevail use a dust mask approved by NIOSH. If sulphur dioxide should be released use a self-contained breathing apparatus.
Gloves	Impervious gloves of chemically resistant material (rubber or PVC) or cotton should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.
Clothing	Body suits, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing with soap and water, dry thoroughly before reuse.
Footwear	No special footwear is required other than what is mandated at place of work.

Engineering Controls

Ventilation Requirements	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems.
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Other..... Keep incompatible materials out of hoods, ducts, etc. Provide eyewash facility near work place.

Section 09 - Physical and Chemical Properties

Physical State.....	Solid
Odor and Appearance.....	Odourless white to pale yellow crystals or powder
Odor Threshold.....	Not applicable
Specific Gravity (Water=1).....	2.63
Vapor Pressure (mm Hg, 20C).....	Not applicable
Vapor Density (Air=1).....	Not applicable
Evaporation Rate.....	Not applicable
Boiling Point.....	Not applicable
Freeze/Melting Point.....	900°C(decomposes)
pH.....	9.8 for a 5% solution
Water/Oil Distribution Coefficient.....	Not available
Bulk Density.....	Not available
% Volatiles by Volume.....	Not applicable
Solubility in Water.....	17% w/w at 10°C 28% w/w at 33°C
Molecular Formula.....	Na ₂ SO ₃
Molecular Weight.....	126.04

Section 10 - Stability and Reactivity

Stability.....	Stable under normal conditions
Incompatibility.....	Acids and strong oxidizers
Hazardous Products of Decomposition..	Reaction with strong oxidizers cause vigorous exothermic reactions. Reaction with acids release sulfur dioxide gas.
Polymerization.....	Will not occur

Section 11 - Toxicological Information

Irritancy.....	Mild irritant
Sensitization.....	Data not available
Chronic/Acute Effects.....	Acute effects - estimated to be moderately toxic.
Synergistic Materials.....	Data not available
Animal Toxicity Data.....	LD ₅₀ (oral, mouse)= 820mg/kg (sodium sulphite)
Carcinogenicity.....	Not considered to be carcinogenic by the ACGIH or IARC.
Reproductive Toxicity.....	Not available
Teratogenicity.....	Sodium sulphate is listed as a possible teratogen by the seventh edition of Dangerous Properties of Industrial Materials.
Mutagenicity.....	Sodium sulphite has been demonstrated to be mutagenic in microbial systems. It has not been mutagenic in studies involving insects and is not considered to pose a mutagenic threat to multicell organisms such as animals or humans.

Section 12 - Ecological Information

Fish Toxicity.....	Aquatic toxicity: TL _m (mosquito fish,96 hour)= 2600ppm Biological oxygen demand (BOD)= 0.12lb/lb
Biodegradability.....	Not available
Environmental Effects.....	Not available

Section 13 - Disposal Consideration

Waste Disposal.....

Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 - Transportation Information

TDG Classification

Class.....

Not regulated

Group.....

Not regulated

PIN Number.....

Not regulated

Other.....

Secure containers (full and/or empty) with suitable hold down devices during shipment.

Section 15 - Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS MSDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS

Section 16 - Other Information

Note:

THE RESPONSIBILITY TO PROVIDE A SAFE WORKPLACE REMAINS WITH THE USER. THE USER SHOULD CONSIDER THE HEALTH HAZARDS AND SAFETY INFORMATION CONTAINED HEREIN AS A GUIDE AND SHOULD TAKE THOSE PRECAUTIONS REQUIRED IN AN INDIVIDUAL OPERATION TO INSTRUCT EMPLOYEES AND DEVELOP WORK PRACTICE PROCEDURES FOR A SAFE WORK ENVIRONMENT. THE INFORMATION CONTAINED HEREIN IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY THE USE OF THIS MATERIAL. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS.