

ORDER NO:DV583563

MATERIAL SAFETY DATA SHEET
CUST:TREATMENT TECHNOLOGY

MSDS NO:65099
VERSION:009 11/05/07

The Version Date and Number for this MSDS is : 11/05/2007 - #009

PRODUCT NAME: SODIUM BISULFITE SOLUTION
MSDS NUMBER: 65099
DATE ISSUED: 01/15/2006
SUPERSEDES: 07/19/2002
ISSUED BY: 008752

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PRODUCT: SODIUM BISULFITE SOLUTION

SECTION 1 - MANUFACTURER INFORMATION

Distributor:
UNIVAR USA, INC.
17425 NE Union Hill Road
Redmond WA 98052
425-889-3400

FOR TRANSPORTATION EMERGENCY ONLY - DAY OR NIGHT
CALL CHEMTREC, 1-800-424-9300

SECTION 2 -- PRODUCT IDENTITY/HAZARDOUS INGREDIENTS INFORMATION

Product name: SODIUM BISULFITE SOLUTION

Chemical name/synonyms: Sodium Bisulfite, Aqueous Solution; Sodium Acid
Sulfite; Sodium Hydrogen Sulfite

Chemical formula: NaHSO3
CAS number: 7631-90-5
Product Code: N/A

HAZARDOUS INGREDIENTS: Yes

Component	CAS No.	% by wt.
Sodium Bisulfite	7631-90-5	27-42%

Exposure limits:
ACGIH TLV: 5 mg/m3, 8-hr TWA
OSHA PEL: None

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IDLH

None

NON-HAZARDOUS INGREDIENTS: Yes

Component	CAS No.	% by wt.
Water	7732-18-5	Balance

OSHA 29 CFR 1910.1200 EVALUATION: Hazardous

SECTION 3 -- PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE AND ODOR: Clear, yellow liquid with an odor of sulfur dioxide.

BOILING POINT: >100 deg C

MELTING POINT: no information

VAPOR PRESSURE (REID): 78 mm Hg @ 37.7 deg C

VAPOR DENSITY (AIR = 1): no information

SPECIFIC GRAVITY (WATER = 1): 1.26 to 1.37 @ 25 deg C

PERCENT VOLATILE BY VOL@ 55 deg C: no information

EVAPORATION RATE (BUTYL ACETATE - 1): <1

pH: 3 to 5

SOLUBILITY IN WATER: Complete

SECTION 4 -- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (CLOSED CUP METHOD): N/A

FLAMMABLE LIMITS IN AIR, % BY VOLUME: N/A LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: Use water, foam, dry chemical, or CO2 fire extinguishers as appropriate to fight surrounding fires. Do not allow water run-off to enter sewers or watercourses.

SPECIAL FIRE FIGHTING PROCEDURES: Wear protective clothing and protective equipment as appropriate for surrounding fire. Keep storage tanks or containers cool. Flood with water. Wear self contained breathing apparatus for major exposure when release of SO2 gas is possible.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Releases sulfur dioxide gas when heated.

SECTION 5 -- REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: will not occur

INCOMPATIBILITY (CONDITIONS AND MATERIALS TO AVOID): Material is stable when properly handled. Reacts with acids, oxidizing agents, and with heat to form toxic sulfur dioxide (SO2) gas. Avoid sources of heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposes with heat or oxidizing agents to

release toxic SO2 gas.

SECTION 6 -- HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Inhalation, ingestion, direct contact

HEALTH EFFECTS (ACUTE AND CHRONIC):

GENERAL: A skin, eye and mucous membrane irritant. Only moderately toxic by ingestion but may cause a severe allergic reaction in some asthmatics and others who are hypersensitive to sulfites. Hazards are largely those from acute exposure or direct contact rather than chronic or repeated low level exposure. The potential for exposure to sulfur dioxide must always be considered as well, particularly when the solution may become overheated.

INHALATION: Inhalation will irritate and may damage upper respiratory tract and lungs. INGESTION: May irritate gastrointestinal tract. Concentrated solutions may cause burns to the digestive tract.

DIRECT CONTACT: Direct skin contact with the solution will cause slight to Moderate skin irritation with discomfort, rash and, rarely, an allergic reaction.

EYE CONTACT: Exposure to mists or aerosols of this solution will cause eye irritation with possible discomfort, tearing, or blurring of vision. If left untreated the solution may cause burns and some eye tissue damage.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: May cause a severe allergic reaction in some asthmatics and others who are hypersensitive to sulfites.

CARCINOGENS (NTP, IARC, OR OSHA): No

SECTION 7 -- FIRST AID

INHALATION: Remove victim to fresh air. If not breathing, perform artificial respiration and get medical attention.

INGESTION: Drink copious quantities of water or milk. Do not induce vomiting. Get immediate medical attention.

DIRECT CONTACT: Wipe off excess. Flush immediately with water for at least 15 minutes while removing contaminated clothing. Get immediate medical attention. Wash clothing before re-use. Destroy contaminated shoes.

DIRECT EYE CONTACT: Flush immediately with water for at least 15 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye/lid tissue. Get immediate medical attention.

SECTION 8 -- PRECAUTIONS FOR SAFE STORAGE, HANDLING AND USE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep storage tanks and containers out of the sun and away from sources of heat and ignition to

prevent decomposition and release of SO₂ gas. Containers should be kept tightly closed to prevent oxidation of the product. In cold weather, store product at temperatures above 50 deg F to avoid crystallization. Do not strike containers or fittings with tools or hard objects. Emptied container retains vapor and product residue.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain spill in order to prevent contamination of sewage system or waterway. If possible, neutralize on a dry basis with sodium carbonate or sodium bicarbonate; then flush with water in accordance with applicable regulations.

WASTE DISPOSAL METHODS: Dispose of spilled, neutralized, or waste product, contaminated soil and other contaminated materials in licensed landfill or treatment facility in accordance with all local, state and federal regulations.

SECTION 9 -- EXPOSURE CONTROL INFORMATION

VENTILATION: Provide ventilation to control exposure levels below airborne exposure limits. Use local exhaust ventilation. Reference NFPA Standard 91 for design of exhaust systems.

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved, full-face respirator with canister approved for sulfuric acid/sulfur trioxide vapor and mist. Consult respirator manufacturer to determine appropriate equipment. If concentrations are high or unknown, use self-contained breathing apparatus.

PROTECTIVE GLOVES: Wear impervious rubber gloves.

EYE PROTECTION: Wear splash proof chemical safety goggles. Eyewash fountains recommended in all storage and handling areas. Do not wear contact lenses.

OTHER PROTECTIVE EQUIPMENT: Wear protective clothing to prevent skin contact. Full face shield and rubber footwear should be used. Acid resistant hood and full body suit recommended. Safety shower recommended in all storage and handling areas.

WORK/HYGIENIC PRACTICES: Avoid breathing mist. Use gloves when handling.

OTHER PRECAUTIONS: None

SECTION 10 -- REGULATORY INFORMATION

USDOT & TRANSPORT CANADA:

Proper shipping name: Bisulfites, aqueous solutions, n.o.s. (sodium bisulfite solution)

Hazard Class: 8
Identification Number: UN2693
Packing Group: PGIII
Marine Pollutant: No
IMO Classification: Class 8

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SARA TITLE III 311/312 HAZARD CLASSIFICATIONS:

ACUTE: Yes
CHRONIC: No
FIRE: No
REACTIVITY: No
PRESSURE: No

SARA TITLE III 313 HAZARD CLASSIFICATIONS:

This product does not contain any toxic chemicals subject to the Toxic Release reporting requirements.

OTHER RATINGS: (hazard index key: 4=severe, 3=serious, 2=moderate, 1=slight, 0=minimal)

HMS: Health-1, Flammability=0, Reactivity=1, CORROSIVE (COR)

NFPA: Health-1, Flammability=0, Reactivity=1

OTHER INFORMATION:

CERCLA HAZARDOUS SUBSTANCE: YES, RQ=5000 lbs.

RCRA 261.33: No

TSCA 8(d): Reported/Included

AQUATIC TOXICITY: Corrosive 96 hr LC50 (mosquito/fish) = 240 ppm. This solution is mildly acidic and has a high chemical oxygen demand (COD). Either the solution itself or water run-off from the material could pose a threat to nearby watercourses.

WHMIS: Class E Corrosive Material

CANADA DSL: Yes

Univar USA Inc Material Safety Data Sheet

For Additional Information contact MSDS Coordinator during business hours, Pacific time: (425) 889-3400

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