

MATERIAL SAFETY DATA SHEET (MSDS)

EM Science
M A T E R I A L S A F E T Y D A T A S H E E T

Section I Product Identification and Use

Manufacturer: EM SCIENCE A Division of EM Industries P.O. Box 70 480 Democrat Road Gibbstown, N.J. 08027	For More Information Call 856-423-6300 Technical Service Monday - Friday; 8:00 AM to 5:00 PM In Case of Emergency Call 800-424-9300 CHEMTREC (USA) 416-201-6383 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week
--	--

Product Name: Sodium Bisulphite
Product Code(s): ACS768, B26987, K92568, SX0344, SX0345
Chemical Name/Other Name: Sodium hydrogen sulphite; sodium acid sulphite; Di-sodium disulphite
Chemical Formula: Mixture of NaHSO₃ and Na₂S₂O₅
Chemical Family: Inorganic Salt
TDG Shipping Name/UN: Corrosive solids, N.O.S. (Sodium bisulphite) UN 1759
TDG Classification/Packing group: 8 PG III
Use: Laboratory reagent, industrial processes, pharmaceuticals

Section II Hazardous Ingredients

Chemical name	CAS No.	%
Sodium bisulphite	7631-90-5	Total: 100
Sodium metabisulphite	7681-57-4	A mixture of both of these

Section III Physical Data

Physical State: Solid
Appearance and Odour: White crystalline powder; sulphur odour
Odour Threshold: Not available
Specific Gravity: 1.48
Vapour Pressure: Not applicable
Vapour Density: Not applicable
Evaporation Rate: Not applicable
Boiling Point: Not available
Freezing Point: Decomposes
pH: Not available
Coefficient of water/oil distribution: Not available

Section IV Fire or Explosion Hazard

Conditions of Flammability: Noncombustible
Extinguishing Media: Use an extinguisher appropriate to the surrounding

material that is burning

Flash point / method: Not applicable

UEL: Not applicable

LEL: Not applicable

Autoignition Temperature: Not applicable

Hazardous Combustion Products: SO_x

Explosion data - sensitivity to mechanical impact: No

- **sensitivity to static discharge:** No

Section V Reactivity Data

Conditions of instability: Slowly oxidizes in the presence of air and moisture

Incompatibilities: Acids, oxidizers

Conditions of reactivity: Normally stable

Hazardous decomposition products: SO_x

Section VI Toxicological Properties / Health Hazard Data

Route of entry:

-**skin contact:** May cause burns

-**skin absorption:** Harmful

-**eye contact:** Causes burns

-**inhalation:** Irritates

-**ingestion:** Harmful

LC₅₀: Not available

LD₅₀: 0.5-5.0 g/kg (orl,hmn), 2000 mg/kg (oral,rat)

Exposure Limits: TLV : 5 ppm (as Sulphur dioxide)

Effects of Acute Exposure: Ingestion may result in irritation of the stomach.

Very large amounts may cause violent colic, diarrhea, depression and death.

Effects of Chronic Exposure: No information available.

Irritancy: No experimental information available

Sensitization to Product: No information available

Carcinogenicity: No information available

Reproductive Toxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Toxicologically Synergistic Products: None found

Section VII First aid measures

Skin: Flush the contact area with lukewarm running water for at least 15 minutes. Remove contaminated clothing, taking care not to spread the chemical. If contamination is extensive, remove clothing under running water. Discard or decontaminate clothing under running water. Discard or decontaminate clothing before use. Unless contact has been slight, seek medical attention. Seek medical attention if irritation persists.

Eye: Flush the contaminated eye(s) for at least 15 minutes with lukewarm running water, holding the eyelids open. Take care not to rinse contaminated water into the non-affected eye. Always seek medical attention for accidents involving the eyes.

Inhalation: Take proper precautions to ensure your own safety before attempting rescue. Remove source of contamination or move victim to fresh air. If

breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

Ingestion: Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Do not induce vomiting. Have victim drink 200-400 ml of water to dilute. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

Section VIII Preventive Measures

Engineering Controls: Engineering control methods to reduce hazardous exposures are preferred. Methods include mechanical ventilation (dilution and local exhaust), process or personnel enclosure, control of process conditions, and process modification. Administrative controls and personal protective equipment may also be required.

Personal protective equipment:

-**gloves:** Rubber

-**respiratory protection:** Approved respirator, fume hood as appropriate

-**eye protection:** Chemical safety goggles or face shield

-**clothing:** Plastic apron, sleeves and boots as appropriate

Storage Requirements: Store in suitable labelled containers in a cool, dry, well ventilated area. Keep containers tightly closed when not in use and when empty. Protect from damage, and also from air.

Handling Procedures and Equipment: Avoid generating dust. Follow routine safe handling procedures.

Leak or Spill Clean-up: Before dealing with spillages take necessary protective measures, inform others to keep at a safe distance and, for flammable materials, shut off all possible sources of ignition. Transfer carefully into container and arrange removal by disposals company. Wash site of spillage thoroughly with water and detergent.

Disposal: Follow all federal, provincial and local regulations for disposal. Use only licensed disposal and waste hauling companies. Disposal of small amounts of spilled material may be handled as described under "Leak or Spill Cleanup". Large spills must be dealt with separately and must be handled by qualified disposal companies.

Special Shipping Information: Follow all TDG regulations and see classification in Section I

Section IX Preparation Information

Prepared by: Technical Affairs Department, BDH Inc.,
Toronto, Ontario
(416) 255-8521

For questions contact: Regulatory Affairs Department, EM Science
Gibbstown, NJ
(856) 423-6300

Date: JULY 19, 1988

Revision date: JUL 4, 1989; JUL 24, 1989; FEB 4, 1992; NOV 2, 1994;
JUL 3, 1997; SEPT 19, 1997; Sep 28, 2000

WHMIS Classification: E

The statements contained herein are offered for informational purposes only and are based upon technical data that BDH INC believes to be accurate. It is intended for use only by persons having the necessary technical skills and at their own discretion and risk. Since conditions and manner of use are outside our control, we make NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE.