

Section 1: Product & Company Information

Product Name: Sodium Sulphite
Chemical Family: Sodium Sulphite
Product Use: Drilling Mud Additive

Workplace Hazardous Materials Information Systems Data (WHMIS):

	Class ID	Class	Workplace Hazard
	D-2-A	Materials Causing Other Toxic Effects - Very Toxic	Toxic effects

Manufacturer Name: HiTech Fluid Systems
Address: #1800, 505 3rd Street SW, Calgary, AB T2P 3E6 Canada
General Phone Number: (403)547-2906
General Fax Number: (403)547-3129
MSDS Revision Date: June 1, 2008
Supercedes: June 23, 2005
Prepared By: HiTech Fluid Systems
Preparer's Phone: (403)547-2906

Section 2: Composition/Information on Ingredients

Chemical Name	Concentration	CAS#
Sodium Sulphite	96%	7757-83-7

Section 3: Hazards Identification

Emergency Overview:

Routes of Entry:

Skin Contact: Yes
Skin Absorption: No
Eye Contact: Yes
Inhalation: Yes
Ingestion: No

Potential Health Effects:

Skin:	Prolonged exposure to dust or solution may cause irritation.
Eye:	May cause slight irritation and/or redness. Solutions will irritate or burn. (See pH.)
Inhalation:	May cause some respiratory irritation.
Ingestion:	May irritate gastrointestinal tract. May cause severe allergic reactions in some asthmatics and sulphite sensitive individuals. Large doses may cause violent colic and diarrhea, circulatory disturbances, central nervous system depression, and even death.

Section 4: First Aid Measures

Eye Contact:	Flush eyes with water for at least 15 minutes. If adverse symptoms develop, seek medical attention.
Skin Contact:	Wash with soap and water. If adverse symptoms develop, seek medical attention.
Inhalation:	Remove patient to fresh air. If breathing has stopped, administer artificial respiration. Seek medical attention.
Ingestion:	If patient is conscious, give them 2 - 4 glasses of water to drink. Induce vomiting and seek medical attention. Do not give anything by mouth to an unconscious or convulsing person.

Other First Aid:

Section 5: Fire Fighting Measures

Conditions Of Flammability:	This product does not burn or support combustion.
Extinguishing Media:	Use water spray to keep containers cool and to knock down flames.
Flashpoint:	N/A
Upper Flammable Limit:	N/A
Lower Flammable Limit:	N/A
Autoignition Temperature:	N/A
Protective Equipment:	Firefighters must wear appropriate breathing apparatus and clothing.
Sensitivity To Impact or Static Discharge:	Not Applicable
Hazardous Combustion Products:	Strong oxidizers cause vigorous exothermic reactions.
Fire Comment:	

Section 6: Accidental Release Measures

- Personnel Precautions:** Use proper personal protective equipment as listed in section 8.
- Spill Cleanup Measures:** Use appropriate safety equipment. Small spills, sweep up and put into approved DOT containers for disposal or re-use. Large spills, do not allow to enter waterways, sweep or shovel into approved DOT containers for re-use or disposal.

Section 7: Handling & Storage

- Handling:** Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact.
- Storage:** Store in a cool, dry, well ventilated place. Keep container tightly closed and away from incompatible materials.

Section 8: Exposure Controls, Personal Protection, Exposure Guidelines

- Engineering Controls:** Provide mechanical ventilation to prevent dust concentrations, and to reduce potential exposure.
- Personal Protective Equipment:** Chemical-resistant clothing is recommended, including gloves, apron, and goggles.
- Respiratory Protection:** Respiratory protection is not normally required. If use creates dust formations, then NIOSH-approved respirator with dust cartridge is recommended.
- Exposure Limits:** None established for sodium sulphite, for SO₂ TWA_{EV} = 2ppm, STEV = 5ppm.

Chemical Name	ACGIH TLV-TWA	OSHA PEL-TWA
Sodium Sulphite	Not Available	Not Available

Section 9: Physical & Chemical Properties

- Physical State:** Solid
- Odour And Appearance:** White crystals; odourless
- Odour Threshold:** Not available
- Boiling Point:** Decomposes at 900°C
- Evaporation Rate:** N/A
- Melting Point:** Not available
- Freezing Point:** N/A
- Specific Gravity:** 2.63

Solubility in Water:	17% @ 10C, 285 @ 33.4C calculated as anhydro
Vapour Density:	N/A
Vapour Pressure:	N/A
pH:	9.8 (1% solution)
Flash Point:	N/A
Volatility (% by volume):	N/A
Coefficient of Water to Oil distribution:	Not available

Section 10: Stability & Reactivity

Chemical Stability:	Yes
Hazardous Polymerization:	
Conditions Of Chemical Instability:	N/A
Incompatible Substances:	Strong oxidizers cause vigorous exothermic reactions. Acids release sulphur dioxide gas.
Special Decomposition Products:	Sulphur dioxide gas: toxic and corrosive. Sodium sulphide residue: flammable, dangerous fire risk, strong irritant to skin and tissue, incompatible with acids.

Section 11: Toxicological Information

Chemical Name	LD ₅₀ (Oral Rat)	LD ₅₀ (Dermal Rabbit)	LC ₅₀ (Inhalation Rat)
Sodium Sulphite	Not Determined	Not Determined	Not Determined

Effects Of Acute Exposure:	Estimated to be moderately toxic.
Effects Of Chronic Exposure:	Sodium sulphite has been demonstrated to have mutagenic effects in humans and mammals.
General Irritancy Of Product:	Moderate
Sensitization:	Not available
Carcinogenicity:	Not available
Reproductive Toxicity:	Not available
Teratogenicity:	Not available
Embryotoxicity:	Not Available
Mutagenicity:	Has been demonstrated to be mutagenic in microbial and multicell organisms.
Synergistic Products:	Not available

Section 12: Ecological Information

Ecotoxicity: Not Available

Environmental Fate: Not Available

Section 13: Disposal Considerations

Waste Disposal: All waste should be disposed of according to federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets criteria for hazardous waste at the time of disposal. Containers should NOT be re-used. Containers should be disposed of in accordance with government regulations.

Section 14: Transport Information


TDG Classification: Not regulated

DOT UN Number: N/A

Shipping Notes: No special requirements

Section 15: Regulatory Information

Workplace Hazardous Materials Information Systems Data (WHMIS):

	Class ID	Class	Workplace Hazard
	D-2-A	Materials Causing Other Toxic Effects - Very Toxic	Toxic effects

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16: Additional Information

MSDS Revision Date: June 1, 2008

MSDS Revision Notes:

MSDS Author: HiTech Fluid Systems

Disclaimer: This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.