

BBC Biochemical

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name: Sodium Thiosulfate Solution	Code: 4120
Supplier: BBC Biochemical	MSDS#: 4120
Synonym: None	Validation Date: 3-27-09
Trade Name: None	Print Date: 3-27-09
Material Uses: Not available.	Responsible Name: Dr. B
Manufacturer: BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477

Section 2. Composition and Information on Ingredients

Name	CAS#	Percent Composition	OSHA/PEL
1) Water	7732-18-5	Withheld as trade secret	N/A
2) Sodium Thiosulfate	7772-98-7		N/A

Section 3. Hazards Identification

Physical State and Appearance	Colorless liquid.
Emergency Overview	Not available.
Routes of Entry	Eye contact, inhalation, ingestion, skin contact.
Potential Acute Health Effects	
Eyes	Irritation, may cause permanent damage.
Skin	Irritation.
Inhalation	Irritation to nose, throat and respiratory system.
Ingestion	May cause allergic reaction: Irritation to throat and respiratory system.
Potential Chronic Health Effects	
Medical Conditions Aggravated by Overexposure/Overexposure/Signs/Symptoms	Respiratory conditions. Repeated and prolonged exposure increases the risk.

Section 4. First Aid Measures

Eye Contact	Immediately flush thoroughly with water for at least 15 minutes.
Skin Contact	Wash thoroughly with water. Remove contaminated clothing at once (launder before reuse); discard contaminated shoes.
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped.
Ingestion	If conscious, dilute, inactivate by giving milk, activated charcoal, or water. Get immediate medical attention. Do not induce vomiting unless directed to do so by medical personnel.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	Not considered to be a fire hazard.
Auto-ignition Temperature	Not available.
Flash Points	None.
Flammable Limits	Not available.
Products of Combustion	Not available.
Fire Hazards in Presence Of Various Substances	Not available.
Explosion Hazards in Presence of Various	Not available.

Substances

Fire Fighting Media and Instructions CO₂, foam, water. Wear self-contained breathing apparatus and protective clothing.

Protective Clothing (Fire)

Special Remarks on Fire Hazards Thermal decomposition produces toxic fumes.

Special Remarks on Explosion Hazards**Section 6. Accidental Release Measures**

Small Spill and Leak Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under section VIII. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Take up and containerize for proper disposal as described under Waste Disposal Method. Comply with Federal, State, and local regulations on reporting releases.

Large Spill and Leak Same as above.

Section 7, Handling and Storage

Handling So not breathe vapor or mist. Do not get in eyes, on skin, or on clothing.

Storage Keep container tightly closed. Store away from heat, sparks, open flame.

Section 8. Exposure Controls / Personal Protection**Engineering Controls****Personal Protection**

Eyes Safety glasses with side shields must be worn at all times.

Body Impervious protective clothing must be worn to prevent skin contact.

Respiratory If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety supplier). Material must be handled or transferred in an approved fume hood or with adequate ventilation. Engineering and/or administrative controls should be implemented to reduce exposure.

Hands Neoprene, nitrile or equivalent protective gloves should be worn.

Feet Impervious protective footwear must be worn to prevent skin contact.

Personal Protection in

Case of a Large Spill See above.

Product Name Exposure Limits

- 1)
- 2)
- 3)

Consult Local authorities before acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Colorless liquid.	Odor:	Not available.
--------------------------------------	-------------------	--------------	----------------

Molecular Weight	Not available.	Taste:	Not available.
-------------------------	----------------	---------------	----------------

Molecular Formula	Not available.	Color:	Colorless.
--------------------------	----------------	---------------	------------

pH (1%/Water)	Not applicable.
----------------------	-----------------

Boiling/Condensation Point	Not applicable.
-----------------------------------	-----------------

Melting/Freezing Point	Not applicable.
-------------------------------	-----------------

Critical Temperature	Not applicable.
-----------------------------	-----------------

Specific Gravity	Not applicable.
-------------------------	-----------------

Vapor Pressure	Not applicable.
-----------------------	-----------------

Vapor Density	Not applicable.
----------------------	-----------------

Volatility	Not applicable.
-------------------	-----------------

Odor Threshold	Not applicable.
-----------------------	-----------------

Evaporation Rate	Not applicable.
-------------------------	-----------------

VOC	Not available.
------------	----------------

Viscosity	Not available.
------------------	----------------

Ionicity (in water)	Not available.
----------------------------	----------------

Dispersion Properties	Not available.
------------------------------	----------------

Solubility	Miscible in water.
-------------------	--------------------

Physical Chemical	Not available.
--------------------------	----------------

Comments	
-----------------	--

Section 10. Stability and Reactivity

Stability and Reactivity	Stable under ordinary conditions of use and storage.
Conditions of Instability	Contact with ignition sources. Contact with incompatibilities.
Incompatibility with Various Substances	Sodium nitrate, halogens and oxidizing agents. Reacts with acids to release sulfur dioxide.
Hazardous Decomposition Products	Oxides of sulfur and hydrogen sulfide.
Hazardous Polymerization	Not available.

Section 11. Toxicological Information

Toxicity to Animals	LD50: Not available. LC50: Not available.
----------------------------	--

Chronic Effects on Humans
Other Toxic Effects on Humans

Special Remarks on Toxicity to Animals	
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

Section 12. Ecological Information

Ecotoxicity	Not available.
BODS and COD	Not available.
Biodegradable/OEDC	Not available.
Mobility	Not available.

Toxicity of the Products of Biodegradation

Special Remarks on The Products of Biodegradation	Not available.
--	----------------

Section 13. Disposal Considerations

Waste Information	Not available.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	Not hazardous.
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	Not applicable.
TDG Classification	Not controlled under TDG (Canada).
ADR/RID Classification	Not controlled under ADR (Europe).
IMO/IMDG Classification	Not controlled under IMDG.
ICAO/IATA Classification	Not controlled under IATA.

Section 15. Other Information

Label requirements

Hazardous Material Information System (U.S.A.)	Health	1	National Fire Protection Association (U.S.A.)	
	Fire Hazard	0		
	Reactivity	0		
	Personal Protection			
References				
Other Special Considerations				
Notice to Reader				
<p><i>To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.</i></p>				