

# MATERIAL SAFETY DATA SHEET

EM SCIENCE

## -1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER.....-

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EM SCIENCE  
A DIVISION OF EM INDUSTRIES  
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INFORMATION PHONE NUMBER.- 609-423-6300  
HOURS- MON. TO FRI. 8-30-5  
CHEMTREC EMERGENCY NUMBER- 800-424-9300  
HOURS- 24 HRS A DAY

CATALOG NUMBER-S--  
SX0345

PRODUCT NAME.....-

SODIUM BISULFITE

SYNONYMS.....-

SODIUM HYDROGEN SULFITE, SODIUM ACID SULFITE

CHEMICAL FAMILY..-

INORGANIC SALT

FORMULA.....-

MIXTURE OF NAHSO3 AND NA2S2O5

MOLECULAR WEIGHT.-

N/A

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #	APPR %
SODIUM METABISULFITE		
	7681-57-4	98%
SODIUM BISULFITE		.
	7631-90-5	2%

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

IRRITATING TO SKIN, EYES AND MUCOUS MEMBRANES.  
MAY BE HARMFUL IF SWALLOWED.  
EMITS TOXIC FUMES WHEN HEATED.

APPEARANCE.....-

WHITE CRYSTALS WITH SULFUROUS ODOR.

POTENTIAL HEALTH EFFECTS -ACUTE AND CHRONIC-

SYMPTOMS OF EXPOSURE-

IRRITATING ON CONTACT WITH SKIN, EYES OR MUCOUS MEMBRANES.  
MAY BE HARMFUL IF SWALLOWED.

MEDICAL COND. AGGRAVATED BY EXPOSURE-  
DATA NOT AVAILABLE.

ROUTES OF ENTRY.....-  
INHALATION, INGESTION

CARCINOGENICITY.....-

THE MATERIAL IS NOT LISTED -IARC, NTP, OSHA- AS CANCER CAUSING  
AGENT.

4. FIRST AID MEASURES

EMERGENCY FIRST AID-

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.  
SKIN- IMMEDIATELY FLUSH THOROUGHLY WITH LARGE AMOUNTS OF WATER.  
EYES- IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15  
MINUTES.  
INHALATION- REMOVE TO FRESH AIR- GIVE ARTIFICIAL RESPIRATION IF  
BREATHING HAS STOPPED.  
INGESTION- DO NOT INDUCE VOMITING- IF CONSCIOUS, GIVE WATER  
FREELY AND GET MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

FLASH POINT -F.....- NONCOMBUSTIBLE  
FLAMMABLE LIMITS LEL -%-. N/A  
FLAMMABLE LIMITS UEL -%-. N/A  
EXTINGUISHING MEDIA.....-  
USE ANY SUITABLE FOR ADJACENT MATERIAL.

FIRE FIGHTING PROCEDURES.-

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

FIRE & EXPLOSION HAZARDS.-

THERMAL DECOMPOSITION PRODUCES TOXIC FUMES.

6. ACCIDENTAL RELEASE MEASURES

SPILL RESPONSE-

EVACUATE THE AREA OF ALL UNNECESSARY PERSONNEL.  
WEAR SUITABLE PROTECTIVE EQUIPMENT LISTED UNDER EXPOSURE /  
PERSONAL PROTECTION.

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 DISPOSAL.  
COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS ON REPORTING RELEASES. REFER TO REGULATORY INFORMATION FOR REPORTABLE QUANTITY AND OTHER REGULATORY DATA.

## 7. HANDLING AND STORAGE

### HANDLING & STORAGE-

KEEP CONTAINER TIGHTLY CLOSED.  
STORE IN A COOL, DRY AREA AWAY FROM IGNITION SOURCES AND OXIDIZERS.  
DO NOT BREATHE DUST.  
DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.  
THIS PRODUCT IS FOR LABORATORY USE ONLY. IT IS NOT INTENDED FOR USE WITH FOOD ITEMS.

## 9. EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT-

VENTILATION, RESPIRATORY PROTECTION, PROTECTIVE CLOTHING, EYE PROTECTION MATERIAL SHOULD BE HANDLED OR TRANSFERRED IN AN APPROVED FUME HOOD OR WITH ADEQUATE VENTILATION.  
PROTECTIVE GLOVES SHOULD BE WORN TO PREVENT SKIN CONTACT  
-NEOPRENE OR EQUIVALENT-  
SAFETY GLASSES WITH SIDE SHIELDS SHOULD BE WORN AT ALL TIMES.

### WORK / HYGENIC PRACTICES-

WASH THOROUGHLY AFTER HANDLING.  
DO NOT TAKE INTERNALLY.  
EYE WASH AND SAFETY EQUIPMENT SHOULD BE READILY AVAILABLE.

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## EXPOSURE GUIDELINES

### OSHA - PEL-

COMPONENT	TWA		STEL		CL		SKIN
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	
SODIUM METABISULFITE							

SODIUM BISULFITE

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## ACGIH - TLV-

COMPONENT	TWA		STEL		CL		SKIN
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	
SODIUM METABISULFITE		5					
SODIUM BISULFITE		5					

## 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT -C 760 MMHG-- N/A  
 MELTING POINT -C----- 302C DECOMPOSES  
 SPECIFIC GRAVITY -H2O - 1-- 1.48  
 VAPOR PRESSURE -MM HG----- N/A  
 PERCENT VOLATILE BY VOL -%-- N/A  
 VAPOR DENSITY -AIR - 1----- N/A  
 EVAPORATION RATE -BUAC - 1-- N/A  
 SOLUBILITY IN WATER -%----- SOLUBLE  
 APPEARANCE-----  
 WHITE CRYSTALS WITH SULFUROUS ODOR.

## 10. STABILITY AND REACTIVITY

STABILITY----- \* SEE -OTHER INFORMATION-

HAZARDOUS POLYMERIZATION--  
DOES NOT OCCUR

HAZARDOUS DECOMPOSITION.--  
SOX, NA2O

CONDITIONS TO AVOID-----  
AIR, HEAT.

MATERIALS TO AVOID-----

-X- WATER  
 -X- ACIDS  
 - - BASES  
 - - CORROSIVES  
 -X- OXIDIZERS  
 -X- OTHER -  
 ALUMINIUM

## 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA-  
NONE ESTABLISHED

TOXICOLOGICAL FINDINGS-  
NONE

CITED IN REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES -RTECS-

## 12. DISPOSAL CONSIDERATIONS

EPA WASTE NUMBERS- D003  
TREATMENT-

SPECIFIED TECHNOLOGY - CONTACT YOUR LOCAL PERMITTED WASTE  
DISPOSAL SITE -TSD- FOR PERMISSIBLE TREATMENT SITES.  
ALWAYS CONTACT A PERMITTED WASTE DISPOSER -TSD- TO ASSURE  
COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

## -13. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME...-  
CORROSIVE SOLID, ACIDIC, INORGANIC, N.C.S. -CONTAINS SODIUM  
BISULFITE-

DOT ID NUMBER.....-  
UN3260

## 14. REGULATORY INFORMATION

TSCA STATEMENT .....-  
THIS PRODUCT IS A -MIXTURE-. THE CAS NUMBERS OF ALL COMPONENTS  
ARE LISTED ON THE TSCA INVENTORY.

COMPONENT	SARA EHS -302-	SARA EHS TPQ -LBS-	* CERCLA RQ -LBS-
SODIUM METABISULFITE			
SODIUM BISULFITE			5000

COMPONENT	OSHA FLOOR LIST	SARA 313	DEMINIMIS FOR SARA 313 -%-
SODIUM METABISULFITE			

SODIUM BISULFITE

Y

Y

## 15. OTHER INFORMATION

### COMMENTS-

STABILITY- STRENGTH DIMINISHES SOMEWHAT WITH AGE.  
GRADUALLY DECOMPOSES IN AIR TO SULFATE, GENERATING SULFUROUS  
ACID GAS.

### NFPA HAZARD RATINGS-

HEALTH	- 2
FLAMMABILITY	- 0
REACTIVITY	- 0
SPECIAL HAZARDS	-

### REVISION HISTORY-

09/01/81 10/27/87 06/13/90 03/01/91 03/25/93 10/09/95

- - REVISED SECTION  
N/A - NOT AVAILABLE  
N/E - NONE ESTABLISHED

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