



SAFETY DATA SHEET

Formula 11

PRODUCT USE: Sodium Bisulfite

REVISION DATE: May 2015

1. PRODUCT AND COMPANY INFORMATION

Water Engineering Inc.
1574 County Rd 10
Mead, NE 68041

24 HOUR EMERGENCY TELEPHONE: (800) 255-3924
ACCOUNT NUMBER: MIS0004338
TO REQUEST AN MSDS: Contact Product Manager
CUSTOMER SERVICE: 800-476-5545

PRODUCT USE: Sodium Bisulfite

PREPARED DATE: April 2002

2. HAZARDS CLASSIFICATION

OSHA REGULATORY STATUS: Corrosive
GHS CLASSIFICATION: 8



GHS SYMBOL:
GHS SIGNAL WORD: Danger!
GHS HAZARD STATEMENT: Data not available
EMERGENCY RESPONSE CODE: 154

EMERGENCY OVERVIEW:

COLOR: Clear Yellow
PHYSICAL FORM: Liquid
ODOR: Sulfur dioxide odor
SIGNAL WORD: Danger!
MAJOR HEALTH HAZARDS: Sulfur Dioxide given off by this product has been shown to cause breathing difficulties in asthmatics. May cause severe allergic reaction in some asthmatics and sulfite sensitive individuals.
PHYSICAL HAZARDS: Data not available
ECOLOGICAL HAZARDS: Data not available
PRECAUTIONARY STATEMENTS: Data not available

POTENTIAL HEALTH EFFECTS:

INHALATION: Causes severe irritation and burns. May irritate nose, throat, mucous membranes. May cause coughing, bronchospasms, difficulty breathing, pulmonary edema or death
SKIN CONTACT: Causes severe irritation and burns. Contact may cause redness, itching, dermatitis (inflammation of the skin), blistering, pain or tissue destruction.
EYE CONTACT: Causes severe irritation and burns. May cause tissue destruction, permanent eye damage and blindness
INGESTION: Causes severe irritation and burns. Ingestion can cause very serious damage to the mouth, esophagus, stomach and other tissues with which contact is made, and may be fatal. May cause headache, abdominal pain, nausea, vomiting, diarrhea, perforation of the intestinal tract. Effects may be delayed

TARGET ORGANS: Not available
CHRONIC EFFECTS: Not available

CARCINOGEN STATUS:

OSHA: Less than 0.1%
NTP: Less than 0.1%
IARC: Less than 0.1%

See Section 11: TOXICOLOGICAL INFORMATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Sodium Bisulfite
CAS NUMBER: 7631-90-5



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PERCENTAGE: 40%

The remaining components are non-hazardous, proprietary information.

4. FIRST AID MEASURES

INHALATION: Remove to fresh air. Get medical attention if irritation persists or symptoms develop later.
SKIN CONTACT: Flush with water for at least 15 minutes while removing clothing. Continue to rinse until "slippery" feeling is gone. Get medical attention if irritation persists or burns develop.
EYE CONTACT: Immediately flush with copious amounts of water for 15 minutes. Hold eyelids open to ensure complete rinse. Remove contact lenses if worn. Get immediate medical attention.
INGESTION: DO NOT INDUCE VOMITING. Give water or milk to dilute. Never give anything by mouth to an unconscious person. Get immediate medical attention.

NOTE TO PHYSICIAN: Aggravates asthma

5. FIRE FIGHTING HAZARDS

FIRE AND EXPLOSION HAZARDS: None known
EXTINGUISHING MEDIA: For fires in area use appropriate media. For example: Water spray. Dry chemical. Carbon Dioxide. Foam.
FIRE FIGHTING: Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-approved self-containing breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers
SENSITIVITY TO MECHANICAL IMPACT: Not available
SENSITIVITY TO STATIC DISCHARGE: Not available
FLASH POINT: Not available
HAZARDOUS COMBUSTION PRODUCTS: Toxic vapors. Sulfur oxides. Sulfur Dioxide gas will be released at a rate increasing with temperature.

6. ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE: Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations. Never exceed any occupational exposure limits. Contain spill, place into drums for proper disposal. Flush remaining area with water and neutralize with Soda Ash or Lime and dispose of properly. Sulfur dioxide and carbon dioxide may be released during neutralization.

7. HANDLING AND STORAGE

STORAGE: Store in a cool, dry, well ventilated area, out of direct sunlight and away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Do not freeze. Relieve pressure in drums weekly.

HANDLING: Wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: Not available
BIOLOGICAL LIMIT VALUES: Not available
VENTILATION: Use local exhaust to provide adequate ventilation if sulfur dioxide is released
EYE PROTECTION: Wear chemical safety goggles and a full face shield while handling. Do not wear contact lenses
CLOTHING: Wear protective clothing to minimize skin contact. Launder contaminated clothing before reuse
GLOVES: Wear impervious gloves: Neoprene, rubber (latex), Polyvinyl chloride
PROTECTIVE MATERIAL TYPES: Not available
RESPIRATOR: Respiratory must be worn when handling this product. Wear NIOSH-Approved respirator if exposure limits are exceeded. Must comply with OSHA 29 CFR 1910.134

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:		PHYSICAL FORM:	Liquid
COLOR:	Clear yellow	ODOR:	Sulfur Dioxide



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BOILING POINT:	219 °F	BULK DENSITY:	Not available
MELTING POINT:	Not available	WATER SOLUBILITY:	Complete
FLASH POINT:	Not available	pH:	2.0 -4.0
DECOMPOSITION POINT:	Not available	VOLATILITY:	Not determined
VAPOR PRESSURE:	9 @ 20 ° C (SO ₂)	ODOR THRESHOLD:	Not available
VAPOR DENSITY:	Not determined	EVAPORATION RATE:	Not determined
SPECIFIC GRAVITY (water=1.000):	1.33 @ 25°C	COEFFICIENT OF WATER/OIL DISTRIBUTION:	NA

10. STABILITY AND REACTIVITY

REACTIVITY:	Stable
CONDITIONS TO AVOID:	Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames
INCOMPATIBILITIES:	Acids, Strong oxidizing agents
HAZARDOUS DECOMPOSITION:	Sulfur dioxide gas. Sodium sulfide. Toxic vapors
POLYMERIZATION:	Will not occur under normal conditions

11. TOXICOLOGICAL INFORMATION

FORMULA 11 :	
IRRITATION DATA:	Not available
TOXICITY DATA:	Not available
CARCINOGEN STATUS:	This product does not contain greater than 0.1% of the known or potential carcinogens listed in NTP, IARC, or OSHA.

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:	Not available
ALGAL TOXICITY:	Not available
FATE AND TRANSPORT:	Not available
BIODEGRADATION:	Not available
PERSISTANCE:	Not available
BIOCONCENTRATION:	Not available
OTHER ECOLOGICAL INFORMATION:	Not available

13. DISPOSAL CONSIDERATIONS

Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs. Dispose of in a permitted hazardous waste management facility following all local, state and federal regulations. If approved, neutralize material and flush to sewer.

14. TRANSPORT INFORMATION

U.S. DOT 49 CFR 172.101:	
PROPER SHIPPING NAME:	BISULFITES, AQUEOUS SOLUTIONS, N.O.S.(CONTAINS SODIUM BISULFITE)
ID NUMBER:	UN 2693
HAZARD CLASS OF DIVISION:	8
PACKING GROUP:	III
LABELING REQUIREMENTS:	Corrosive

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

SHIPPING NAME:	BISULFITES, AQUEOUS SOLUTIONS, N.O.S.(CONTAINS SODIUM BISULFITE)
UN NUMBER:	UN 2693
CLASS:	8
PACKING GROUP/RISK GROUP:	III

EMERGENCY RESPONSE CODE:	154
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15. REGULATORY INFORMATION

U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):

COMPONENT: Sodium Bisulfite



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CAS NUMBER: 7631-90-5

PERCENTAGE: 40%

T.P.Q.: 5,000 lbs

R.Q.: 5,000 lbs

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

ACUTE: Yes

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65)

COMPONENT: Sodium Bisulfite

CAS NUMBER: 7631-90-5

PERCENTAGE: 40%

OSHA PROCESS SAFETY (29 CFR 1901.119):

OTHER U.S. REGULATIONS:

STATE REGULATIONS:

California Proposition 65:

NEW JERSEY WORKER AND COMMUNITY RIGHT TO KNOW:

REPORTING REQUIREMENT:

(LIST CHEMICAL, CAS NUMBER, PERCENTAGE)

SPECIAL HEALTH HAZARD SUBSTANCE LIST:

(LIST CHEMICAL, CAS NUMBER, PERCENTAGE)

PENNSYLVANIA RIGHT TO KNOW:

REPORTING REQUIREMENT:

(LIST CHEMICAL, CAS NUMBER, PERCENTAGE)

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION:

NATIONAL INVENTORY STATUS:

U.S. INVENTORY (TSCA):

TSCA 12(b) EXPORT NOTIFICATION:

CANADA INVENTORY (DSL/NDSL):

16. OTHER INFORMATION

NFPA RATINGS/ HMIS RATINGS (SCALE 0-4): HEALTH= 3/3 FIRE= 0/0 REACTIVITY= 1/1 J

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