



# Safety Data Sheet

## Sodium Bisulfite



### Signal word

### Warning

### Hazard statement(s)

H302  
H313  
H319  
H332

Harmful if swallowed  
May be harmful in contact with skin  
Causes serious eye irritation  
Harmful if inhaled

### Precautionary statement(s)

P261  
P264  
P270  
P271  
P280  
P301+P312  
P304+P340  
P305+P351+P338  
  
P312  
P330  
P337+P313  
P501

Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash ... thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell,  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
Call a POISON CENTER/doctor/... if you feel unwell.  
Rinse mouth.  
If eye irritation persists: Get medical advice/attention.  
Dispose of contents/container to ...

### 2.3 Other hazards which do not result in classification

Contact with acids liberates toxic sulfur dioxide gas.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Other names / synonyms                      Dechlor

### Hazardous components

#### 1. Sodium bisulfite (mixture of NaHSO<sub>3</sub> and Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub>)

Concentration                      30 - 50 %  
EC no.                                      231-548-0  
CAS no.                                    7631-90-5  
Index no.                                  016-064-00-8

- Acute toxicity (chapter 3.1), Cat. 4

H302                                      Harmful if swallowed

#### 2. SODIUM SULFITE

Concentration                      <1 %  
CAS no.                                  7757-83-7

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### 3. Sodium sulfate

Concentration <3.5 %  
CAS no. 7757-82-6

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice	Seek appropriate medical attention and provide this SDS to attending doctor. Note to physician: Exposure may aggravate acute or chronic asthma, emphysema and bronchitis.
If inhaled	Remove from exposure to fresh air. Seek medical attention in severe cases or if recovery is not rapid.
In case of skin contact	Wash with soap and drench with water. Remove contaminated clothing and wash before reuse.
In case of eye contact	Irrigate with water until no evidence of chemical remains. Obtain medical attention.
If swallowed	Give large quantities of water or milk immediately. Obtain medical attention.
Personal protective equipment for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 4.2 Most important symptoms/effects, acute and delayed

Inhalation: Sore throat, shortness of breath, coughing and congestion.  
Eye Contact: Irritation to eyes and mucous membranes.  
Skin Contact: Irritation, itching, dermatitis.  
Ingestion: Irritation to mucous membranes.

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## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Use extinguishing agent appropriate for surrounding fire conditions.

### 5.2 Specific hazards arising from the chemical

May release hazardous gas.

### 5.3 Special protective actions for fire-fighters

Do not release runoff from fire control methods to sewers or water ways.

### Further information

Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure demand or positive-pressure mode.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate PPE - See Section 8.

#### 6.2 Environmental precautions

For large spills dike far ahead of contaminated runoff for later disposal.

#### 6.3 Methods and materials for containment and cleaning up

Small leaks wear appropriate PPE - See Section 8. Spills can be neutralized with an alkaline material such as caustic soda. Leaks may be located by spraying the area with ammonium hydroxide solution which forms a white fume in the presence of sulfur dioxide.

Large spills/Leaks: Large spills should be handled according to a predetermined plan.

#### Reference to other sections

See Section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid contact with product. Do not breathe dust or vapor.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in areas, away from heat and moisture and protect from physical damage. Segregate from acids and oxidizers.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### 1. Sodium Bisulfite Solution (5-44%) (CAS: 7631-90-5)

TWA (Inhalation): 5 mg/m<sup>3</sup>; USA (ACGIH)

##### 2. Sodium Bisulfite Solution (5-44%) (CAS: 7631-90-5)

TWA (Inhalation): 5 mg/m<sup>3</sup>; USA (OSHA)

##### 3. Sodium Bisulfite Solution (5-44%) (CAS: 7631-90-5)

TWA (Inhalation): 5 mg/m<sup>3</sup>; USA (NIOSH)

#### 8.2 Appropriate engineering controls

Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA limits. Local exhaust ventilation is preferred, because it prevents contaminant dispersion into work area by controlling it at the source.

#### 8.3 Individual protection measures, such as personal protective equipment (PPE)

##### Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

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Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Wearing appropriate chemical resistant gloves, boots and impervious apron is recommended.

### Body protection

Wearing appropriate chemical resistant gloves and impervious apron is recommended.

### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Use MSHA/NIOSH approved respirator according to OSHA respirator regulations. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks) wear a SCBA. Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

### Thermal hazards

Wear appropriate thermal protective clothing when necessary.

### Environmental exposure controls

See Section 12 for additional ecological information.

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form	Liquid/Yellow
Odor	Pungent SO2 odor
Odor threshold	Pungent SO2 odor
pH	2.9-4.9
Melting point/freezing point	26F
Initial boiling point and boiling range	205F
Flash point	N/A
Evaporation rate	Normal.
Flammability (solid, gas)	N/A
Upper/lower flammability limits	N/A
Upper/lower explosive limits	N/A
Vapor pressure	N/A
Vapor density	N/A
Relative density	N/A
Solubility(ies)	N/A
Partition coefficient: n-octanol/water	N/A
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Viscosity	N/A
Explosive properties	N/A
Oxidizing properties	N/A

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Contact with powdered potassium, sodium metals, alkali, and oxidizing agents produce violent reactions. Reacts with water and steam to form corrosive sulfurous acid. Reacts with chlorates to form unstable chlorine dioxide.

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### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

May release hazardous sulfur dioxide gas.

### 10.4 Conditions to avoid

Avoid excess heat, or open flame.

### 10.5 Incompatible materials

Contact with powdered potassium, sodium metals, alkali, and oxidizing agents produce violent reactions. Reacts with water and steam to form corrosive sulfurous acid. Reacts with chlorates to form unstable chlorine dioxide.

### 10.6 Hazardous decomposition products

May release hazardous sulfur dioxide gas.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Exposure to asthmatic, atopic and sulfite sensitive individuals may result in severe bronchioconstriction and reduced levels in forced expiratory volume. Decomposition of sodium bisulfite solutions may release toxic and hazardous fumes of sulfur oxides, including sulfur dioxide, which may cause permanent pulmonary impairments from acute and chronic exposure. The Immediately Dangerous to Life or Health (IDLH) level for SO<sub>2</sub> is 100ppm.

#### Skin corrosion/irritation

Irritation, itching, dermatitis.

#### Serious eye damage/irritation

Irritation to eyes and mucous membranes.

#### Respiratory or skin sensitization

Prolonged or repeated exposure may cause dermatitis, and sensitization reactions.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### Reproductive toxicity

No data available.

#### Summary of evaluation of the CMR properties

This product is not expected to contribute to any of these properties.

#### STOT-single exposure

Not classified.

#### STOT-repeated exposure

Not classified.

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**Aspiration hazard**  
Not available.

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### SECTION 12: Ecological information

**Toxicity**

Sodium Bisulfite is a non hazardous solution commonly used as a waste water dechlorination agent. High concentration will contribute to elevated chemical oxygen demand in aquatic environments.

**Persistence and degradability**

Rapid biological decomposition.

**Bioaccumulative potential**

No data available.

**Mobility in soil**

Slight.

**Results of PBT and vPvB assessment**

No data available.

**Other adverse effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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### SECTION 13: Disposal considerations

**Disposal of the product**

Waste determination typically consider Sodium Bisulfite contaminated materials to be non-hazardous.

**Disposal of contaminated packaging**

Follow applicable Federal, state and local regulations.

**Waste treatment**

Follow applicable Federal, state and local regulations.

**Sewage disposal**

Follow applicable Federal, state and local regulations.

**Other disposal recommendations**

Follow applicable Federal, state and local regulations.

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### SECTION 14: Transport information

**DOT (US)**

UN Number: UN2693

Class: 8

Packing Group: III

Proper Shipping Name: Bisulfites, aqueous solutions, n.o.s.

Reportable quantity (RQ): 5,000 lbs.

Marine pollutant:

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Poison inhalation hazard:

### IMDG

UN Number:

Class:

Packing Group:

EMS Number:

Proper Shipping Name:

### IATA

UN Number:

Class:

Packing Group:

Proper Shipping Name:

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### Pennsylvania Right To Know Components

Chemical name: Sodium sulfate (solution)

CAS number: 7757-82-6

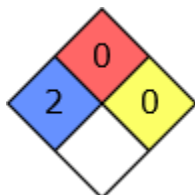
### 15.2 Chemical Safety Assessment

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. Read safety instructions, SDS, and emergency procedures before handling.

#### HMIS Rating

Sodium Bisulfite	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

#### NFPA Rating



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## SECTION 16: Other information

### 16.1 Further information/disclaimer

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