

## SAFETY DATA SHEET

Preparation Date: 06/29/2015

Revision Date: 06/29/2015

Revision Number: G1

### 1. IDENTIFICATION

#### Product identifier

**Product code:** S1173  
**Product Name:** SODIUM BISULFITE, GRANULAR, REAGENT, ACS

#### Other means of identification

**Synonyms:** Bisulfite de sodium [French]  
Hydrogen sodium sulfite  
Hydrogen sulfite sodium  
Monosodium sulfite  
Sodium acid sulfite  
Sodium bisulfite (1:1)  
Sodium bisulfite (NaHSO<sub>3</sub>)  
Sodium bisulphite  
Sodium hydrogen sulfite  
Sodium hydrosulfite(DOT)  
Sodium metabisulfite  
Sodium sulfite (NaHSO<sub>3</sub>)  
Sodium sulhydrate  
Sulfurous acid, monosodium salt  
Uantax SBS

**CAS #:** 7631-90-5  
**RTECS #** VZ2000000  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** Chemical intermediate. vat. dye preparation. In textiles. Bleaching groundwood, wool, etc; cask sterilization (brewing); plating; color preservative for pale crepe rubber; wood pulp digestion; antiseptic in fermentation industries; pharmaceutical acid; antioxidant in eyedrops. Reducing agent. Analytical reagent. Dietary supplement. Disinfectant. Bleaching agent. Food preservative. Medication.

**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                   |             |
|-----------------------------------|-------------|
| Acute toxicity - Oral             | Category 4  |
| Serious eye damage/eye irritation | Category 2A |
| Respiratory sensitization         | Category 1  |
| Skin sensitization                | Category 1  |

### Label elements

#### Danger

#### Hazard statements

Harmful if swallowed  
Causes serious eye irritation  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction



#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

May be harmful if inhaled

#### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Avoid breathing dust/fume/gas/mist/vapors/spray  
In case of inadequate ventilation wear respiratory protection  
Contaminated work clothing should not be allowed out of the workplace  
Wear protective gloves/protective clothing/eye protection/face protection

#### Precautionary Statements - Response

*Specific treatment (see .? on this label)*

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight % | Trade Secret |
|------------|---------|----------|--------------|
|------------|---------|----------|--------------|

Product code: S1173

Product name: SODIUM BISULFITE,  
GRANULAR, REAGENT, ACS

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

|                               |           |     |   |
|-------------------------------|-----------|-----|---|
| Sodium Bisulfite<br>7631-90-5 | 7631-90-5 | 100 | * |
|-------------------------------|-----------|-----|---|

### 4. FIRST AID MEASURES

#### First aid measures

##### **General Advice:**

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126).

##### **Skin Contact:**

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

##### **Eye Contact:**

Flush eye with water for 15 minutes. Get medical attention.

##### **Inhalation:**

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

##### **Ingestion:**

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

#### Most important symptoms and effects, both acute and delayed

##### **Symptoms**

Causes serious eye irritation. Causes skin irritation. May cause allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause irritation of respiratory tract.

#### Indication of any immediate medical attention and special treatment needed

##### **Notes to Physician:**

Treat symptomatically

#### Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

##### **Suitable Extinguishing Media:**

The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

##### **Unsuitable Extinguishing Media:**

No information available.

#### Specific hazards arising from the chemical

##### **Hazardous Combustion Products:**

Sodium oxides. Sulfur oxides

##### **Specific hazards:**

When heated to decomposition it emits toxic fumes

#### Special Protective Actions for Firefighters

##### **Specific Methods:**

No information available.

##### **Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid breathing dust. Avoid dust formation.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Use appropriate tools to put the spilled solid in a suitable waste disposal container. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### **Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe vapours/dust. Do not ingest. Do not smoke. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials.

#### **Incompatible Materials:**

Oxidizing agents. Acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **National occupational exposure limits**

##### **United States**

| Components                    | OSHA | NIOSH                     | ACGIH                     | AIHA WHEEL |
|-------------------------------|------|---------------------------|---------------------------|------------|
| Sodium Bisulfite<br>7631-90-5 | None | = 5 mg/m <sup>3</sup> TWA | = 5 mg/m <sup>3</sup> TWA | None       |

##### **Canada**

| Components                    | Alberta                   | British Columbia          | Ontario                 | Quebec                    |
|-------------------------------|---------------------------|---------------------------|-------------------------|---------------------------|
| Sodium Bisulfite<br>7631-90-5 | = 5 mg/m <sup>3</sup> TWA | = 5 mg/m <sup>3</sup> TWA | 5 mg/m <sup>3</sup> TWA | 5 mg/m <sup>3</sup> TWAEV |

##### **Australia and Mexico**

| Components                    | Australia               | Mexico |
|-------------------------------|-------------------------|--------|
| Sodium Bisulfite<br>7631-90-5 | 5 mg/m <sup>3</sup> TWA | None   |

## Appropriate engineering controls

### Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

## Individual protection measures, such as personal protective equipment

### Personal Protective Equipment

- Eye protection:** Safety glasses with side-shields
- Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.
- Respiratory protection:** Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent..
- Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |   |   |
|--|---|---|
| <b>Physical state:</b><br>Solid.                                     | <b>Appearance:</b><br>Granular.                               | <b>Color:</b><br>White. Off-white.  |
| <b>Odor:</b><br>Sulfurous.   | <b>Taste</b><br>Disagreeable.                                 | <b>Molecular/Formula weight:</b><br>104.06  |
| <b>Formula:</b><br>NaHSO <sub>3</sub>                                | <b>Flammability:</b><br>No information available              | <b>Flash point (°C):</b><br>No data available   |
| <b>Flashpoint (°C/°F):</b><br>No information available.              | <b>Flash Point Tested according to:</b><br>Not available      | <b>Lower Explosion Limit (%):</b><br>No information available   |
| <b>Autoignition Temperature (°C/°F):</b><br>No information available | <b>Upper Explosion Limit (%):</b><br>No information available | <b>pH:</b><br>No information available  |
| <b>Melting point/range(°C/°F):</b><br>No information available       | <b>Boiling point/range(°C/°F):</b><br>146°C/ 294.8°F          | <b>Decomposition temperature(°C/°F):</b><br>No information available  |
| <b>Bulk density:</b><br>No information available                     | <b>Specific gravity:</b><br>1.31-1.48                         | <b>Vapor pressure @ 20°C (kPa):</b><br>No information available   |
| <b>Density (g/cm<sup>3</sup>):</b><br>No information available       | <b>Evaporation rate:</b><br>No information available          | <b>Vapor density:</b><br>No information available   |
| <b>VOC content (g/L):</b><br>No information available                | <b>Odor threshold (ppm):</b><br>No information available      | <b>Partition coefficient (n-octanol/water):</b><br>No information available   |
| <b>Viscosity:</b><br>No information available                        | <b>Miscibility:</b><br>No information available               | <b>Solubility:</b><br>Easily soluble in hot water<br>Soluble in cold water<br>Soluble in 3.5 parts cold water<br>Soluble in 2 parts boiling water<br>Soluble in 70 parts alcohol<br>Insoluble in liquid chloride, ammonia |

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with acids  
Reactive with oxidizing agents  
Oxidizes in air to sulfate

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Incompatible materials.

**Incompatible Materials:** Oxidizing agents. Acids.

**Hazardous decomposition products:** Sodium oxides. Sulfur oxides.

### Other Information

**Corrosivity:** Non-corrosive in the presence of glass  
Corrosive in presence of aluminum

Special Remarks on Corrosivity: No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Principal Routes of Exposure:

Inhalation. Ingestion.

### Acute Toxicity

### Component Information

*Sodium Bisulfite - 7631-90-5*

**LD50/oral/rat** = 1310 mg/kg Oral LD50 Rat

**LD50/oral/mouse** = No information available

**LD50/dermal/rat** = No information available

**LD50/dermal/rabbit** = No information available

**LC50/inhalation/rat** = No information available

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = No information available

### Product Information

**LD50/oral/rat** =

VALUE- Acute Tox Oral = 1310mg/kg

**LD50/oral/mouse** =

Value - Acute Tox Oral = No information available

**LD50/dermal/rabbit**

VALUE-Acute Tox Dermal = No information available

**LD50/dermal/rat**

VALUE -Acute Tox Dermal = No information available

**LC50/inhalation/rat**

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

**LC50/Inhalation/mouse**

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

### Symptoms

**Skin Contact:** Causes skin irritation.

**Eye Contact:** Causes serious eye irritation.

**Inhalation** Can cause respiratory tract irritation with cough, wheezing, and shortness of breath. It can produce anaphylaxis or other hypersensitivity reactions in some sensitized individuals.

**Ingestion** May be harmful if swallowed. It may cause nausea, vomiting, diarrhea, abdominal pain, gastric hemorrhage. Extremely large amounts may affect behavior/central nervous system and may produce central nervous system stimulation, irritation, seizures and may also cause, cyanosis, respiratory depression, apnea, circulatory disturbances, hypotension and cardiovascular collapse. May cause asthmatic reaction in sensitized individuals.

**Aspiration hazard** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Prolonged or repeated inhalation may cause bronchitis with coughing, phlegm, and/or shortness of breath. Inhalation: May cause allergic respiratory reaction (occupational asthma). Prolonged or repeated inhalation may cause asthma-like allergy or hypersensitivity reactions such as anaphylaxis, angioedema, bronchoconstriction, shortness of breath, wheezing, coughing, chest tightness, flushing, sweating, rash, tachycardia and hypotension in sensitized individuals. Future exposures may cause shortness of breath, wheezing, cough, and/or chest tightness. Prolonged or repeated ingestion may affect the liver. Prolonged or repeated ingestion may affect the blood. Skin: Sensitizer. May cause allergic skin reaction (allergic contact dermatitis).

**Sensitization:** May cause sensitization by inhalation and skin contact

**Mutagenic Effects:** Experiments with bacteria and/or yeast have shown mutagenic effects  
May affect genetic material

**Carcinogenic effects:** Not considered carcinogenic

| Components       | IARC   | ACGIH - Carcinogens                       | NTP        | OSHA HCS - Carcinogens | Australia - Prohibited Carcinogenic Substances | Australia - Notifiable Carcinogenic Substances |
|------------------|--|---|------------|------------------------|--|--|
| Sodium Bisulfite | Monograph 54 [1992] Sulfur dioxide and some sulfites bisulfites and metabisulfites | A4 Not Classifiable as a Human Carcinogen | Not listed | Not listed             | Not listed                                     | Not listed                                     |

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available  
**Developmental Effects:** No information available  
**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available  
**STOT - repeated exposure** No information available  
**Target Organs:** Lungs. Respiratory system. Skin. Eyes.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** Harmful to aquatic organisms.



Sodium Bisulfite - 7631-90-5

**Freshwater Fish Species Data:** 240 mg/L LC50 Gambusia affinis 96 h static 1

**Water Flea Data:** 119 mg/L EC50 Daphnia magna 48 h

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available

**Mobility:** No information available

### 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

| Components       | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|------------------|------------------------|------------------------|------------------------|------------------------|
| Sodium Bisulfite | None                   | None                   | None                   | None                   |

### 14. TRANSPORT INFORMATION

#### DOT

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** None  
**ERG No:** No information available  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available

#### TDG (Canada)

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available

#### ADR

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Classification Code:** No information available  
**Description:** No information available

## 14. TRANSPORT INFORMATION

**CEFIC Tremcard No:** No information available

### IMO / IMDG

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available  
**IMDG Page:** No information available  
**Marine Pollutant** No information available  
**MFAG:** No information available  
**Maximum Quantity:** No information available

### RID

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Classification Code:** No information available  
**Description:** No information available

### ICAO

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available

### IATA

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available

## 15. REGULATORY INFORMATION

### International Inventories

| Components              | U.S. TSCA | KOREA KECL       | Philippines (PICCS) | Japan ENCS      | CHINA   | Australia (AICS) | EINECS-No.        |
|-------------------------|-----------|------------------|---------------------|-----------------|---------|------------------|-------------------|
| <i>Sodium Bisulfite</i> | Present   | Present KE-31484 | Present             | Present (1)-502 | Present | Present          | Present 231-548-0 |

### U.S. Regulations

*Sodium Bisulfite*

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 1685  
**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present  
**Pennsylvania RTK:** Environmental hazard  
**Pennsylvania RTK - Environmental Hazard List** Present  
**Pennsylvania RTK - Special Hazardous Substances** Present

Sodium Bisulfite

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

= 100 lb RQ

= 5000 lb RQ

Louisiana Reportable Quantity List for Pollutants: Listed

California Directors List of Hazardous Substances: Present

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 182.3739

FDA - 21 CFR - Total Food Additives 161.173 173.310 177.1200 182.3739

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Components       | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|------------------|------------|------------------------|----------------------------|-------------------------------|
| Sodium Bisulfite | Not Listed | Not Listed             | Not Listed                 | Not Listed                    |

CERCLA/SARA

| Components       | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting <i>de minimis</i> |
|------------------|---|---|--|---------------------------------|---|
| Sodium Bisulfite | = 2270 kg final RQ<br>= 5000 lb final RQ                      | None  | None   | None                            | None                                      |

U.S. TSCA

| Components       | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|------------------|---|--|
| Sodium Bisulfite | Not Applicable  | 01/26/199406/30/1998                   |

Canada

WHMIS hazard class:

D2B Toxic materials

Sodium Bisulfite

D2B

Canada Controlled Products Regulation:

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

| Components       | WHMIS Ingredient Disclosure List - |
|------------------|------------------------------------|
| Sodium Bisulfite | 1 %                                |

Inventory

| Components       | Canada (DSL) | Canada (NDSL) |
|------------------|--------------|---------------|
| Sodium Bisulfite | Present      | Not Listed    |

| Components | CEPA Schedule I - Toxic Substances | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
|------------|------------------------------------|---|
|            |                                    |   |

|                  |            |            |
|------------------|------------|------------|
| Sodium Bisulfite | Not listed | Not listed |
|------------------|------------|------------|

**EU Classification**

**R-phrase(s)**

R22 - Harmful if swallowed.

R31 - Contact with acids liberates toxic gas.

**S -phrase(s)**

S 2 - Keep out of the reach of children.

S25 - Avoid contact with eyes.

S46 - If swallowed, seek medical advice immediately and show this container or label.

| Components       | Classification | Concentration Limits: | Safety Phrases |
|------------------|----------------|-----------------------|----------------|
| Sodium Bisulfite | Xn; R22<br>R31 | No information        | S2 S25 S46     |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

Xn - Harmful.

Xn



**16. OTHER INFORMATION**

## 16. OTHER INFORMATION

**Preparation Date:** 06/29/2015  
**Revision Date:** 06/29/2015  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**