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Material Safety Data Sheet

Sodium bisulfite
MSDS# 21001

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium bisulfite
Catalog Numbers: AC223070000, AC223070010, AC223075000, AC419440000, AC419440010, AC419440020, AC419440025, AC419440050, AC419441000, S654-1, S654-1LC, S654-500
Synonyms: Sodium hydrogen sulfite.
Company Identification: Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call:
201-796-7100
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US:
800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#: 7631-90-5
Chemical Name: Sodium bisulfite
%: 99+
EINECS#: 231-548-0

Hazard Symbols:
XN
Risk Phrases:
22 31

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Warning! Harmful if swallowed. Contact with acids liberates toxic gas.
Target Organs: Respiratory system.
Potential Health Effects
Eye:
May cause eye irritation.
Skin:
May cause skin irritation. May be harmful if absorbed through the skin. May cause sensitization by skin contact.
Ingestion:
Harmful if swallowed. May cause irritation of the digestive tract.
Inhalation:
May cause respiratory tract irritation. May be harmful if inhaled. May cause respiratory sensitization.
Chronic:
Repeated or prolonged exposure may cause allergic reactions in sensitive individuals.

Section 4 - First Aid Measures

Eyes:
Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.
Skin:
Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
Ingestion:
Do not induce vomiting. Get medical aid immediately. Call a poison control center.
Inhalation:
Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to Physician:
Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Extinguishing Media:
Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.
Autoignition Temperature: Not applicable.
Flash Point: Not applicable.
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
NFPA Rating:
health: 2; flammability: 0; instability: 2;

Section 6 - Accidental Release Measures

General Information:
Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:

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Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling:
Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage:
Store in a cool, dry place. Store in a tightly closed container. Keep away from strong acids. Do not store in aluminum containers.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium bisulfite	5 mg/m3	5 mg/m3 TWA	none listed

OSHA Vacated PELs:
Sodium bisulfite:
5 mg/m3 TWA

Personal Protective Equipment

Eyes:
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:
Wear appropriate protective gloves to prevent skin exposure.

Clothing:
Wear appropriate protective clothing to prevent skin exposure.

Respirators:
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder
Color: white
Odor: sulfurous odor
pH: 4 - 5 (25% aq. sol.)
Vapor Pressure: Not applicable.
Vapor Density: Not available
Evaporation Rate: Not applicable.
Viscosity: Not applicable.
Boiling Point: Not applicable.
Freezing/Melting Point: 150 deg C (decom)
Decomposition Temperature: Not available
Solubility in water: 300 g/L
Specific Gravity/Density: 1.480
Molecular Formula: HNaO3S
Molecular Weight: 104.06

Section 10 - Stability and Reactivity

Chemical Stability:
Oxidizes when exposed to air. Contact with acid liberates gas. Moisture sensitive.

Conditions to Avoid:
Incompatible materials, dust generation, exposure to air, temperatures above 150°C, exposure to moist air or water.

Incompatibilities with Other Materials:
Oxidizing agents, acids, aluminum.

Hazardous Decomposition Products:
Oxides of sulfur, toxic fumes of sodium oxide.

Hazardous Polymerization:
Will not occur.

Section 11 - Toxicological Information

RTECS#:
CAS# 7631-90-5: VZ2000000
LD50/LC50:
RTECS: CAS# 7631-90-5: Oral, rat: LD50 = 2 gm/kg;.
Other:
Carcinogenicity:
Sodium bisulfite -
IARC: Group 3 (not classifiable)
Epidemiology:
Two cases of occupational asthma in laundry workers exposed to sodium metabisulfite were reported. Sodium metabisulfite may be considered to be the anhydride of sodium bisulfite and is the chief constituent of commercial dry sodium bisulfite.
Teratogenicity:
No information found
Reproductive:

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See actual entry in RTECS for complete information.

Neurotoxicity:

No information found

Mutagenicity:

See actual entry in RTECS for complete information.

Other:

See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Other:

Do not empty into drains.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

USA RQ: CAS# 7631-90-5: 5000 lb final RQ; 2270 kg final RQ

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 7631-90-5 is listed on the TSCA Inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 7631-90-5: 5000 lb final RQ; 2270 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7631-90-5: acute.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

CAS# 7631-90-5 is listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as Priority

Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

STATE

Sodium bisulfite can be found on the following state right to know

lists: California, New Jersey, Pennsylvania, Minnesota,

Massachusetts.

California Prop 65

California No Significant Risk Level:

None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

R 31 Contact with acids liberates toxic gas.

Safety Phrases:

S 25 Avoid contact with eyes.

S 46 If swallowed, seek medical advice immediately

and show this container or label.

WGK (Water Danger/Protection)

CAS# 7631-90-5: 1

Canada

CAS# 7631-90-5 is listed on Canada's DSL List

Canadian WHMIS Classifications: D1B

This product has been classified in accordance with the hazard

criteria of the Controlled Products Regulations and the MSDS

contains all of the information required by those regulations.

CAS# 7631-90-5 is listed on Canada's Ingredient Disclosure

List

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Section 16 - Other Information

MSDS Creation Date:

9/02/1997

Revision #8 Date

2/15/2008

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.