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Safety Data Sheet

Date Effective: May 13, 2015

SPI Catalog # 09730-AB

SPI-Chem™ Sodium Sulfite Anhydrous

Section 1: Identification

Chemical Name/Synonyms..... Sodium sulfite, anhydrous

Chemical family..... inorganic salt

Emergencies
Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...
Worldwide phone: 1-(703)-527-3887
Worldwide FAX: 1-(703)-741-6090
Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name..... SPI-Chem™ Sodium Sulfite Anhydrous

CAS #'s..... 7757-83-7

Chemical Formula..... Na_2So_3

HAZARDS IDENTIFICATION
OSHA
This material is not hazardous by OSHA Hazard Communication Definition.

GHS Classification
Not classified as dangerous

Hazard Symbol(s)
No symbol

Signal Word: No phrase required

Hazard Statement(s)
No hazard statements required

Precautionary Statement(s)
None required

Hazardous Material Information System USA
- Health..... 1
- Fire Hazard..... 0
- Reactivity..... 0
- Personal Protection.....

NFPA Rating (estimated)

Health..... 1
Flammability..... 0
Reactivity..... 0

Section 2: Composition

Component Name	CAS #	EINEC#
Sodium sulfite, anhydrous, 99%	7757-83-7	231-821-4
Sodium sulfate, anhydrous, 1%	7757-82-6	231-820-9

Proprietary additives N/L N/L N/L N/L N/L

Note: N/L = Not listed

Section 3: Hazard Identification

This material is not hazardous by OSHA Hazard Communication definition.
May cause severe allergic reaction.

Signal Word

CAUTION!

Physical Health Hazards:

Dust may be irritating to body tissues after prolonged contact, and inhalation of the dust can cause irritation to the nose and throat and coughing. It may also cause acute allergic reaction in some people.

Physical state: Solid

Color: White crystalline powder

Odor: None

Odor threshold: No data available

Potential Health Effects:

Routes of exposure

Eye contact, ingestion, skin contact

Signs and Symptoms of Acute Exposure:

Severe coughing and/or skin irritation.

Skin contact:
Brief contact with the powder should not, in most cases cause irritation. However prolonged contact can cause irritation. When contact occurs, the powder should be washed off with soap and water.

Brief contact with an aqueous solution of the powder should not, in most cases, cause irritation. Should contact with the aqueous solution occur, wash with soap and water. Steady, constant contact with skin in an aqueous solution should be avoided.

Inhalation:

Inhalation of the powder will cause irritation to the nose and throat and cause coughing and eventually chest discomfort. However, some individuals may be very allergic to this material. In the case of inhalation of the powder and dust, remove to fresh air immediately. Give artificial respiration if not breathing. Get immediate medical attention.

Eye contact:
Immediately start flushing with an excess of running water for at least 15 minutes, lifting the upper and lower lids occasionally. Get immediate medical attention for the eyes in such cases.

Ingestion:
Ingestion is unlikely. However, should ingestion occur, give the victim 8-12 ounces of water and seek medical attention. If person is unconscious, remove any visible residue from mouth and seek medical attention. **Note: Never give anything by mouth to an unconscious person.**

Chronic Health Effects Summary:

Inhalation:
Long term breathing of the dust can cause irritation to the nose and throat and eventually lead to coughing.

Skin Contact:
Long term exposure to the dry powder of aqueous solutions formed from the dry powder will eventually lead to skin irritation.

Conditions Aggravated by Exposure:
Some persons may be very allergic to this material.

Section 4: First Aid Measures

Take proper precautions to ensure your own health and safety before attempting to rescue and providing first aid. For specific information refer to the Emergency Overview in Section of this MSDS.

Inhalation: If symptoms are experienced, immediately remove victim to fresh air, give artificial respiration if breathing has stopped. Seek immediate medical attention.

Eye Contact: Wash eyes with clean low-pressure water for at least 15 minutes, lifting the upper and lower lids occasionally to ensure adequate washing. Get immediate medical attention.

Skin Contact: Immediately wash with excess amounts of soap and water. If irritation persists or develops, seek medical attention.

Ingestion: If ingestion occurs, immediately give the victim 8 to 12 ounces of water and seek immediate medical attention. Note: Never try to give a liquid to an unconscious person.

Section 5: Fire Fighting Measures

Flammability classification:
Non-combustible

Flash Point/Method: Not applicable

Auto-Ignition Temperature: Not known

Flammable Limits: Lower: Not applicable
Upper: Not applicable

Hazardous Combustion Products:

This material is considered to be non-combustible. However under fire conditions, it may decompose to give off sulfur dioxide.

Special Conditions to Avoid:
Not known

Extinguishing Media:

Small fires: Use extinguishing media appropriate for the surrounding fire.

Large fires: Use extinguishing media appropriate for the surrounding fire.

Fire Fighting Instructions:

Protective Equipment/Clothing: Use what would be appropriate for materials in the surrounding area, which should include self-contained breathing apparatus and full protective clothing. Use water spray to cool nearby containers exposed to the fire.

Instructions: Use approaches that would be appropriate for the materials in the surrounding area.

Other comments: This material is considered to be non-combustible. However under fire conditions, it may decompose to give off sulfur dioxide.

Section 6: Accidental Release Measures

Release response:

Pick up and retain for recycle or disposal. Do not flush spilled material to the sewer or the environment.

Reportable Quantities: See Section 15: Regulatory information.

Section 7: Handling and Storage

Protective items: Avoid skin and eye contact. Use rubber gloves to protect the skin, especially when handling the dry powder. Wear safety glasses, not only when working with the dry powder but also when clearing negatives in the aqueous solution. When using larger quantities than one would normally use in a negative clearing application, we would recommend a suitable laboratory apron and to have in the vicinity, a safety shower and eye bath. Wash hands thoroughly with soap and water after each use and launder contaminated clothing before reuse.

Handling:
Transfer from the stock container with a minimum amount of dusting. In the event of a spill, collect the spilled powder for storage in approved waste containers. Keep out of sewers, storm drains, surface water and soil.

Neutralizing Agent: None

Storage:

Keep container dry. Store away from excessive heat and away from strong oxidizing agents. Keep container closed to prevent contamination. It is also desirable to keep tightly closed to keep out moisture which could cause some amount of "clumping" of the powder.

Section 8: Exposure Controls and Personal Protection

Engineering Controls: If user operations generate dust or fumes, ventilate area to prevent accumulation.

Personal Protection:

Inhalation: Use appropriate NIOSH/MSHA approved respiratory protection where atmosphere exceeds recommended limits.

Skin: Protective clothing such as long sleeves or a lab coat should be worn, especially when handling the powder.

Eye: Always use chemical safety goggles, when working with either the dry powder or the clearing of negatives in an aqueous solution. It is all too easy to splash some of the solution in the eyes at this point. This is especially pertinent for those doing microscopy, because of the personal aversion many microscopists have to the wearing of safety glasses when doing precision microscopy work. If you have microscopists working under your control and direction, make sure they are wearing their safety glasses when clearing their negatives!

Section 9: Physical and Chemical Properties

Boiling Point/Range: Decomposes at 593° C (1100° F)

pH: 9.6 – 9.8 (1% solution)

Vapor Pressure: Not applicable

Viscosity: Not applicable

Specific Gravity:
Solid/Liquid: 2.63 (water = 1)

Water solubility: 27% at 20°C (68°F)

Octanol/Water Partition Coefficient in Kow: Specific value not known

Melting/Freezing Point: Decomposes at 593° C (1100° F)

Evaporation Rate: None

Section 10: Stability and Reactivity

Chemical Stability: The product is stable

Conditions to Avoid: Excess heat, moisture, and contamination of any kind.

Incompatibility with: Acids and strong oxidizing agents.

Hazardous Products of Deposition: Not expected to decompose under normal conditions. If in a fire, it is itself noncombustible, however it may decompose and release vapors of sulfur dioxide.

Reactions with Air and Water: Do not add water to an excess of the dry powder. Always add dry powder slowly to an excess of water.

Section 11: Toxicological Information

Summary: Not considered to be toxic to humans or animals.

Component:
Sodium sulfite

LC_{50}-LC_{50} Mixture:
Oral: Rabbit LD_{50} = 2825 mg/kg

Skin Effects: Dry powder and to a lesser degree aqueous solutions can be irritating to body tissues.

Acute Inhalation Effects: Irritation to the nose and throat accompanied with severe coughing and chest pains.

Subchronic Effects: May cause allergic reaction.

Chronic Effects/Carcinogenicity:
NTP: No
IARC: No
OSHA: No

Reproductive/Development Effects:
No reproductive or developmental effects are expected.

Section 12: Ecological Information

Exotoxicity: Sodium sulfite depletes oxygen when added to water.

Environmental Fate: No information found in our selected references.

Bioaccumulation: Not expected to occur.

Section 13: Disposal Considerations

This material is NOT classified as a hazardous material by RCRA. Use only licensed transporters and permitted disposal facilities and conform to all federal, state and local regulations.

Section 14: Transport Information

DOT (US)
Not dangerous goods.

IMDG
Not dangerous goods.

IATA
Not dangerous goods.

Section 15: Regulatory Information

TSCA: All components of this product are listed on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) Export Notification Rule, they will be listed below.

TSCA 12(b) Component	**Listed under TSCA Section**
None	

SARA-Section 313 Emissions Reporting:

Component	**Reporting Threshold**
None	

SARA-Section 311/312: No components present in this product are subject to the reporting requirements of this statute.

CERCLA Hazardous Substances and their Reportable Quantities:

Component	**Reportable Quantity**
None	

State Right to Know Lists:

Sodium Sulfite, CAS# 7757-86-7 is on the PA and NJ Right to Know Lists.

California Prop. 65:

Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a warning statement if the product contains ingredients for which the State has found to cause cancer, birth defects or other reproductive harm. If this product contains an ingredient listed by the State of California to cause cancer or reproductive toxicity, it will be listed below:

WGK (Water Danger/Protection):

CAS# 7757-83-7 : 1
CAS# 7757-82-6 : 0

Canada:

WHMIS: This product has a WHMIS classification of D2B.

DSL/NDSL:

CAS# 7757-83-7 is listed on the DSL list and is not listed on the NDSL list.
CAS# 7757-82-6 is listed on the DSL List and is not listed on the NDSL list.

European/International Regulations:

Labeling according to EC Directives

Hazard Symbol: none

Risk Phrases:

R 22: Harmful if swallowed
R 36: Irritating to eyes
R 38: Irritating to the skin
R 40: Possibility of irreversible effects.

Safety Phrases:

S 22: Do not breathe dust
S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.

S 36: Wear suitable protective clothing

Section 16: Other Information

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

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