

## SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

## Safety Data Sheet

Date Effective: November 13, 2018

SPI Catalog # 09730-AB

SPI-Chem™ Sodium Sulfite Anhydrous

### Section 1.1: Identification

Chemical Name/Synonyms ..... Sodium Sulfite anhydrous

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

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

Chemical Formula..... Na<sub>2</sub>SO<sub>3</sub>

### Section 1.2: Relevant Uses/Restrictions

Laboratory chemical for use in photography.

### Section 1.3: Supplier of the Safety Data Sheet

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### Section 1.4: Emergency telephone number

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-741-5970

Toll-free phone: 1-(800)-424-9300 USA + Canada only

### Section 2: Hazard Identification

#### 2.1 Classification of the substance

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Eye irritation (category 2A)

#### 2.2 Label elements

**Pictogram**

**Signal Word:** Warning

**Hazard statements:**

H319 Causes serious eye irritation  
H302 Harmful if swallowed  
H402 Harmful to aquatic life

**Precautionary statements:**

P264 Wash skin thoroughly after handling  
P280 Wear eye protection/ face protection  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention

**2.3 Other Hazards Not Otherwise Classified:**

Hazardous decomposition products formed under fire conditions.  
May cause sensitization by inhalation.

**Hazardous Material Information System USA**

Health ..... 2  
Fire Hazard ..... 0  
Reactivity ..... 1  
Personal Protection .....

**NFPA Rating (estimated)**

Health ..... 2  
Flammability ..... 0  
Reactivity ..... 1

**Section 3: Composition**

**3.1 Substances:** Not applicable

**3.2 Mixtures:****Components:**

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

**Section 4: First Aid Measures****4.1 Description of first aid measures:****Inhalation:**

Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed.

Remove to fresh air.  
Give oxygen or artificial respiration if needed.

**Exposure to decomposition products:**

If inhaled, remove to fresh air.  
Immediate medical attention is required.

**Skin Contact:**

When contact occurs, wash off with plenty of soap and water.  
Brief contact with powder or aqueous solution should not, in most cases, cause irritation. However, prolonged contact can cause irritation.

**Eye Contact:**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine).  
Immediate medical attention is required.

**Ingestion:**

If victim is unconscious: Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed:**

**Symptoms in case of inhalation:**

Headache  
Breathing difficulties  
Cardiac irregularities  
Loss of consciousness and cardiopulmonary arrest

**Effects:**

Mild respiratory irritant  
May cause severe allergic respiratory reaction  
Breathing of dust may aggravate asthma or other pulmonary diseases

**In case of eye contact:**

**Effects:**

Moderate eye irritation

**4.3 Indication of any immediate medical attention and special treatment needed:**

No data available.

## ***Section 5: Fire Fighting Measures***

**5.1 Extinguishing media:**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water may be ineffective.

**5.2 Special hazards arising from the substance or mixture:**

Not combustible.  
Contact with water liberates hazardous gas.  
Sulfur dioxide.

**5.3 Hazardous combustion products:**

Sulfur dioxide.  
Sulfur oxides.

#### **5.4 Advice for firefighters:**

##### **Special protective equipment and precautions for firefighters:**

Wear self-contained breathing apparatus and protective suit.

Use NIOSH approved respiratory protection.

##### **Further information:**

Approach from upwind.

## **Section 6: Accidental Release Measures**

### **6.1 Personal precautions:**

Avoid dust formation.

Keep away from water.

### **6.2 Environmental precautions:**

The product should not be allowed to enter drains, water courses, or the soil.

In case of accidental release or spill, immediately notify the appropriate authorities if required by

Federal, State/Provincial, and local laws and regulations.

Should not be released into the environment.

Do not flush into surface water or sanitary sewer system.

### **6.3 Methods and material for containment and cleaning up:**

Pick up and retain for recycling or disposal.

Keep in suitable, closed containers for disposal.

### **6.4 Reference to other sections:**

See Section 13 for disposal information.

## **Section 7: Handling and Storage**

### **7.1 Precautions for safe handling:**

#### **Protective measures:**

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Use only in well-ventilated areas.

Avoid dust formation.

Protect from moisture.

Avoid prolonged or repeated contact with skin.

#### **Advice on general hygiene conditions:**

Wash contaminated clothing before re-use.

Eye wash bottle with pure water.

Use only in an area equipped with a safety shower.

Handle in accordance with good industrial hygiene and safety practice.

When using, do not eat, drink, or smoke.

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

Keep away from heat/ sparks/ open flames/ hot surfaces.

No smoking.

For personal protection see Section 8.

### **7.3 Specific end uses:**

Laboratory chemical for use in photography.

This material is not being offered for clinical or diagnostic applications, agricultural uses or for human or animal consumption.

## **Section 8: Exposure Controls and Personal Protection**

### **8.1 Control parameter and Personal Protection:**

**Workplace exposure limits:** Contains no substances with occupational exposure limit values.

**Biological limit values:** No data available.

### **8.2 Exposure controls:**

#### **8.2.1 Appropriate engineering controls:**

Ensure adequate ventilation.

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

#### **8.2.2 Individual protection measures:**

Respiratory protection:

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

In the case of vapor formation, use a respirator with an approved filter.

In case of dust or aerosol formation, use respirator with an approved filter.

Hand protection:

Use chemical resistant gloves.

Skin and body protection:

Wear suitable protective clothing, such as long sleeves or a lab coat.

Eye protection:

Chemical resistant goggles must be worn.

Hygiene measures:

Wash contaminated clothing before re-use.

Eye wash bottle with pure water.

Use only in an area equipped with a safety shower.

Handle in accordance with good industrial hygiene and safety practice.

When using, do not eat, drink, or smoke.

#### **8.2.3 Environmental exposure controls:**

If user operation generates dust or fumes, ventilate area to prevent accumulation.

## **Section 9: Physical and Chemical Properties**

### **9.1 Information on basic physical and chemical properties:**

**Appearance:** Granular solid, white

**Odor:** Odorless

**Odor threshold:** No data available

**pH:** 9.6-9.8 (1% solution)

**Melting point/Freezing point:** No data available

**Boiling point/Boiling point range:** Decomposes at 593 °C (1100 °F)

**Flash Point:** No data available

**Evaporation rate:** No data available

**Flammability (solid, gas):** This product is not flammable

**Upper/lower flammability or explosive limits:** Not applicable

**Vapor Pressure:** No data available

**Vapor density:** No data available

**Bulk density:** 1.5-1.6 kg/m<sup>3</sup>

**Solubility:** 250 g/l (20 °C (68 °F))

**Partition coefficient (n-octanol/water):** log Pow: -4 (25 °C (77 °F))

**Auto-ignition temperature:** No data available

**Decomposition temperature:** Decomposes at 593 °C (1100 °F)

**Viscosity:** No data available

**Explosive properties:** No data available

**Oxidizing Properties:** Not considered as oxidizing

**Molecular weight:** 126.04 g/mol

**9.2 Other information:** No further data available.

## ***Section 10: Stability and Reactivity***

**10.1 Reactivity:** No data available.

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

**10.3 Possibility of Hazardous Reactions:** No data available.

**10.4 Conditions to avoid:** Heat. Exposure to moisture. Contamination of any kind.

**10.5 Incompatible materials:** Water. Acids. Oxidizing agents.

**10.6 Hazardous decomposition products:** Sulfur dioxide. Sulfur oxides.

## ***Section 11: Toxicological Information***

**Information on the likely routes of exposure:**

**11.1 Information on toxicological effects:**

**A. Acute toxicity:**

LD50	Mouse, oral	820 mg/kg
LD50	Rat, oral	>2,000 mg/kg

**B. Skin corrosion/irritation:**

Rabbit: No skin irritation.

**C. Serious eye damage/irritation:**

Rabbit: Eye irritation.

**D. Respiratory or skin sensitization:**

No data available.

**E. Germ cell mutagenicity:**

Genotoxicity in vitro: In vitro tests showed mutagenic effects.

Genotoxicity in vivo: No data available.

**F. Carcinogenicity:**

No data available.

This product does not contain any ingredient designated as probable or suspected human carcinogen by: NTP; IARC; OSHA; ACGIH.

**G. Reproductive toxicity:**

Toxicity to reproduction / fertility: No data available.

Developmental Toxicity / Teratogenicity: No data available.

**H. STOT-single exposure:**

No data available.

**I.. STOT-repeated exposure:**

No data available.

**J. Aspiration hazard:**

No data available.

**Further information:**

Harmful if swallowed.

Moderate eye irritation.

May cause sensitization of susceptible persons by inhalation or aerosol or dust.

## ***Section 12: Ecological Information***

**12.1 Toxicity:****Aquatic toxicity:**

Carassius auratus (goldfish) LC50 – 96 h: 100 mg/l

**12.2 Persistence and degradability:**

Method: Biochemical Oxygen Demand (BOD): Instantaneous reaction.

**12.3 Bio-accumulative potential:**

Bio-accumulative potential.

**12.4 Mobility in soil:**

No data available.

**12.5 Results of PBT and vPvB assessment:**

No data available.

**12.6 Other adverse effects:**

No data available.

**Remarks:**

Oxygen scavenger.

Ecological injuries are not known or expected under normal use.

**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 13: Disposal Considerations**

### **13.1 Waste treatment methods:**

#### **Product disposal:**

Use only licensed transporters and permitted disposal facilities.  
Follow all federal, state, and local regulations.

#### **Advice on cleaning and disposal of packaging:**

Use dedicated containers as far as possible, to avoid treatments.  
Containers that cannot be cleaned must be treated as waste – in accordance with local, state, and national regulations.

## **Section 14: Transport Information**

**DOT:** Not regulated.

**IATA:** Not regulated.

**IMDG:** Not regulated.

## **Section 15: Regulatory Information**

### **15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture:**

#### **U.S. Government Regulations:**

##### **TSCA Active Inventory List:**

CAS # 7757-83-7 is listed.  
CAS # 7757-82-6 is listed.

##### **SARA Section 302:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.  
This material does not contain any components with a SARA 302 Reportable Quantity (RQ).

##### **SARA Section 304:**

This material does not contain any components with a Section 304 EHS RQ.

##### **SARA Sections 311/312 Hazards:**

Fire Hazard: No  
Reactivity Hazard: No  
Sudden Release of Pressure Hazard: No  
Acute Health Hazard: yes  
Chronic Health Hazard: yes

##### **Sara Section 313 Toxic Chemicals:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

##### **U.S. EPA CERCLA Hazardous Substances and Reportable Quantities:**

This material does not contain any components with a CERCLA RQ.

##### **US State Regulations:**

##### **California Prop. 65:**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.



**New Jersey Right to Know List:**

CAS # 7757-83-7 is listed.

**Pennsylvania Right to Know List:**

CAS # 7757-83-7 is listed.

**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.

**Additional Information:****WGK (Water Danger/Protection):**

CAS # 7757-83-7: 1

CAS # 7757-82-6: 0

New Zealand Inventory of Chemical Substances:	In compliance with the inventory.
Australia Inventory of Chemical Substances (AICS):	Listed on inventory.
Japan – CSCL – Inventory of Existing and New Chemical Substances:	Listed on inventory.
Korea – Korean Existing Chemicals Inventory (KECI):	Listed on inventory.
China – Inventory of Existing Chemical Substances in China (IECSC):	Listed on inventory.
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Listed on inventory.

**15.2 Chemical Safety Assessment:** A Chemical Safety Assessment has not been carried out.

**Date of Preparation:** 13 November 2018

**Abbreviations and acronyms**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

CMRG: Chemical Manufacturer's Recommended Guidelines

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulative and Toxicological

vPvB: very Persistent and very Bio-accumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety Health

ATE: Acute Toxicity Estimates

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

STEL: Short Term Exposure Limit

CEIL: Ceiling

TSCA: Toxic Substances Control Act (USA)

DSL: Domestic Substances List (Canada)  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
ENCS: Existing and New Chemical Substances (Japan)  
AICS: Australian Inventory of Chemical Substances  
IECSC: Inventory of Existing Chemical Substances in China  
KECL: Korea Existing Chemicals List

## ***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 or fluids.

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