

MATERIAL SAFETY DATA SHEET

BIO-BAG SST

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Revision Date: 6/23/2006

Supersedes: New

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: BIO-BAG SST, **Chemical Name:** Proprietary Blend, **Chemical Family:** Mixture, **Formula:** Not Applicable, Mixture, **CAS Registry Number:** Not Applicable, Mixture.

Manufacturer: Solid-Safe Technologies, P.O. Box 62302, Cincinnati, OH 45262-0302

Telephone Numbers: Product Information: (866) 489-9831, Emergency Response: (800)255-3924

2. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Components</u> | <u>CAS#</u> | <u>% by Wt.</u> | <u>TLV</u> |
|--------------------------------------|-------------|-----------------|--|
| 2-(Thiocyanomethylthio)benzothiazole | 21564-17-0 | 8 | Not available. |
| Methylene bis(thiocyanate) | 6317-18-6 | 8 | Not available. |
| Diethylene glycol monomethyl ether | 111-77-3 | 3-4 | Not available. |
| Particulates Not Otherwise Regulated | | 65 | CEIL: 10 (mg/m ³) from ACG1H (TLV) [United States] |

The remainders of the components comprise proprietary information.

3. FIRST AID MEASURES

Eye Exposure: Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed individual to a health care professional, preferably an ophthalmologist, for further evaluation.

Skin Exposure: Wash exposed area with plenty of soap and water. Repeat washing. Remove contaminate clothing and wash thoroughly before reuse. If irritation persists consult a health care professional.

Inhalation: If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual experiences nausea, headache, dizziness, has difficulty in breathing or is cyanotic, see a health care professional immediately.

Ingestion: DO NOT INDUCE VOMITING. Rinse with copious amounts of water or milk, first. Irrigate the esophagus and dilute stomach contents by slowly giving one (1) to two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, **DO NOT GIVE FLUIDS BY MOUTH.** In case of intentional ingestion of the product seek medical assistance immediately; take individual to the nearest medical facility.

4. PRIMARY ROUTES OF EXPOSURE

1. Effects from Acute Exposure:

Eye Exposure: Very hazardous in case of eye contact (irritant, corrosive). Eye contact can result in corneal damage or blindness. Inflammation of the eye is characterized by redness, watering, and itching.

Skin Exposure: Very hazardous in case of skin contact (Sensitizer.). Hazardous in case of skin contact (corrosive, irritant). The amount of tissue damage depends on length of contact. Skin contact can produce inflammation and blistering. Skin contact may produce burns. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation: Hazardous in case of inhalation. Effects will depend on concentration and length of time of exposure.

Ingestion: Ingestion is not expected to be a primary route of exposure.

5. TOXICOLOGICAL INFORMATION

Acute Effects: Expected to be acutely hazardous by all routes of exposure.

Irritant / Sensitization Effects: Very hazardous in case of eye contact (irritant, corrosive). Eye contact can result in corneal damage or blindness. Inflammation of the eye is characterized by redness, watering, and itching. Very hazardous in case of skin contact (Sensitizer.). Hazardous in case of skin contact (corrosive, irritant). The amount of tissue damage depends on length of contact. Skin contact can produce inflammation and blistering. Skin contact may produce burns. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Hazardous in case of inhalation. Effects will depend on concentration and length of time of exposure.

Arcinogenic Potential: Not tested. Not shown as carcinogen by OSHA, IARC, or NTP.

Target Organs Effects: May cause damage to the following organs: upper respiratory tract, skin, eyes.

Other Health Effects: None known.

6. Environmental Toxicological Information

No information available.

7. Physical and Chemical Properties

| | |
|-------------------------------|---|
| Appearance | Light yellow solid |
| Odor | Organic. (Slight) |
| Density | 1.03 g/cm ³ |
| Flash Point | CLOSEDCUP :>101.7°C(215.1°F).(Pensky-Martens.)(10%solution) |
| Melting/Freezing Point | Not available. |
| Boiling Point | Not available. |
| Solubility | Dispersible in cold water. Dispersible in hot water. |
| pH (Neat) | Not available. |
| pH (100 ppm in water) | Not available. |
| Vapor Pressure | Not applicable for solids. |
| o/w Partition Coefficient | Not available. |
| Oxidizing/Reducing Properties | Not available. |
| Viscosity | Not available. |
| Additional pH Information | Not available. |

8. Fire and Explosion Information

Flammable Limits: Not Available

Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical

Special Firefighting Procedures: Cyanide salts are formed when product contacts strong alkali. Thermal decomposition of product can produce toxic vapors of hydrogen cyanide and sulfur dioxide. Contact with fire may generate oxides of sulfur, nitrogen and carbon.

9. Reactivity Information

Stability: Do not heat and/or store above 50C as decomposition may increase packaging pressure.

Incompatibility: Strong acids, strong oxidizers, strong bases. Extended heating at high temperatures.

Hazardous Decomposition Products: Cyanide salts are formed when product contacts strong alkali. Thermal decomposition of products can produce toxic vapors of hydrogen cyanide and sulfur dioxide. Contact with fire may generate oxides of sulfur, nitrogen and carbon.

10. Handling Precautions

Rubber gloves, safety glasses or goggles, body protective clothing and shoes are required. Eye-wash fountains in the work place are recommended. Ventilation should be adequate to control dust level. If dusting can occur, a NIOSH approved respirator is recommended.

11. Satisfactory Materials of Construction

Not available.

12. Spill, Leak, and Disposal Procedures

Important: Before responding to a spill or leak of this product, review each section of this MSDS. Follow recommendation given in the Handling Precautions sections. Check the Fire and Explosion Data section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. If irritating fumes are present, consider evacuation of enclosed areas.

Emergency Response Assistance: (800)255-3924.

Initially minimize are effected by the spill or leak. Block any potential routes to water systems (e.g., sewers, streams, lakes, etc.). Based on the product's toxicological and chemical properties, and on the size and location of the spill or leak, assess the impact on contaminated environments (e.g. water systems, ground, air equipment, etc.). There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize adverse effects on these environments. Determine if federal, state, and/or local release notification is required (see Regulatory Classifications section of this MSDS). Recover as much of the pure product as possible into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Address clean-up of present at the site of a spill or leak incident, may be acceptable if authorized approval is obtained. If product and/or spill/leak residuals are flushed to an industrial sewer insure that they do not come into contact with incompatible materials. Contact the person(s) responsible for the operation of your facility's industrial sewer system prior to intentionally flushing spills or leaks of this product to the industrial sewer.

DISPOSAL GUIDELINES

Note: Follow federal, state, and local regulations governing the disposal of waste materials.

Contaminated Materials: Determine if waste containing this product can be handled by available industrial effluent system or other on-site waste management unit. If off-site management is required, contact a company experienced in industrial waste management. This product is not specifically listed in 40 CFR 261 as a Resource Conservation and Recover Act (RCRA) hazardous waste. However, spill or leak residuals may meet the criteria of a characteristic hazardous waste under this Act. Check the characteristics of the material to be dispose of and/or the physical and reactivity data given in this MSDS of the neat product.

Container Disposal: Empty containers, as defined by appropriate sections of the RCRA, are not RCRA hazardous wastes. However, insure proper management of any residuals remaining in container.

13. Transportation and Shipping Information

DOT Shipping Information:

Corrosive Solid, Toxic, n.o.s, (2-Thiocyanomethylthio) benzothiazole, Methylene bis(thiocyanate)), Class 8, UN2923, PG III, (ERG No. 154)

IMO/IMDG Shipping Information:

Corrosive Solid, Toxic, n.o.s, (2-Thiocyanomethylthio) benzothiazole, Methylene bis(thiocyanate)), Class 8, UN2923, PG III, (6.1), (mS No. 8-15, MFAG Table No. 760 & 4.3, ERG No. 154, HAZMAT CODE 4936353)

IATA Shipping Information:

Corrosive Solid, Toxic, n.o.s, (2-Thiocyanomethylthio) benzothiazole, Methylene bis(thiocyanate)), Class 8, (6.1), UN2923, PG III, (ERG No. 154)

Unless otherwise stated, the shipping information provided above applies only to non-bulk containers of this product. Proper shipping name and general shipping information may vary depending on packaging and mode of shipment. All products shipped from Solid-Safe Technologies locations have been properly packaged and labeled according to appropriate hazardous materials shipping regulations. If any alteration of packaging, product, or mode of transportation is further intended, different shipping information, including but not limited to proper shipping name, RQ designation, and labeling may apply.

14. REGULATORY INFORMATION

The following Regulations are known to apply to the use and disposal of this product. Additional Federal, State and Local regulations may also be applicable.

SARA (Superfund Amendments and Reauthorization Act)

SARA 302 Extremely Hazardous Substance List....

No components of this product are listed.

SARA 312 Hazard Category...

Immediate Health Hazard

SARA 313 Toxic Chemicals List

Diethylene glycol monomethyl ether

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

No components of this product are present above the de minimums levels.

RCRA (Resource Conservation and Recovery Act) Listed Hazardous Waste

No components of this product are listed.

CWA (Clean Water Act) Listed Substances

No components of this product are listed.

FDA (Food and Drug Administration)

This product is **NOT APPROVED** for food contact uses.

TSCA (Toxic Substance Control Act) Applicability

All components may not be listed on the TSCA Inventory. Registered pesticides are exempt from the requirements of TSCA.

FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act)

This product is a registered pesticide. EPA Reg. No. 1448-408-073395

HMIS/NPCA Rating... Health 3 Flammability 1 Reactivity 1

MATERIAL SAFETY DATA SHEET, BIO-BAG SST

NFPA Rating..... Health 3 Flammability 1 Reactivity 1

State Regulations

Various State Right to Know Acts...

Non-proprietary hazardous chemicals are listed in Section 2 of this MSDS.

The information on the Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Data Sheet is the responsibility of the user. This Material Data Safety Sheet was prepared to comply with the OSHA Hazard Communication regulations.

Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty.

The exclusive remedy against seller shall be in a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort.

Any controversy or claim arising out or relating to this contract, or breach thereof, shall be settle by arbitration in accordance with the commercial arbitration rules of the American Arbitration Association, and judgment upon the rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.