

**MATERIAL SAFETY DATA SHEET**

Sparex - SOL-802.10

**SECTION I - COMPANY AND PRODUCT INFORMATION**

Product SKU Number:..... 042, 044

JUL 16 2004

Chemical Name and Synonyms:.... Sodium Bisulfate Anhydrous Globular  
 ..... pH Minus; Dry Acid Sparex  
 Chemical Family:..... Sodium Bisulfate  
 Formula:..... NaHSO<sub>4</sub> CAS # 07647-01-0

NFPA Rating: Health:0 Flammability:0 Reactivity:0 Special:  
 DOT Proper Shipping Name:..... Not Classified as Hazardous  
 DOT ID Number:..... Not Classified as Hazardous  
 DOT Hazard Class:..... Not Classified as Hazardous  
 Package Group:..... Not Classified as Hazardous

**SECTION II - HAZARDOUS INGREDIENTS**

Sodium Bisulfate..... 94.5%

**SECTION III - PHYSICAL DATA**

FREEZING POINT.....	N/A	DECOMPOSITION TEMPERATURE....	N/A
BOILING POINT .....	350° F	BULK DENSITY (loose)..	83 lb./ft <sup>3</sup>
SPECIFIC GRAVITY (H <sub>2</sub> O)=1).....	N/A	pH (in 1% solution).....	<1
pH .....	N/A	SOLUBILITY IN WATER.....	100
VAPOR PRESSURE (cm Hg.)..	Variable	VAPOR DENSITY (Air = 1).....	11.0
PERCENT VOLATILE ....	Non-Volatile	MOLECULAR WEIGHT.....	120.054
EVAPORATION RATE (____=1).....	N/A	ODOR .....	None
APPEARANCE.....	Off-white, bead like, granular, dry material		

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT..... N/A  
 FLAMMABLE LIMITS..... N/A  
 EXTINGUISHING MEDIA..... Water or dry chemicals

**SPECIAL FIRE FIGHTING PROCEDURES:** If water is used to extinguish combustibles and product is dissolved in water forming sulfuric acid, wear acid protective equipment. Self-contained breathing apparatus should be worn.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Product readily dissolves in water to form a weak sulfuric acid solution. No gases or toxic fumes are emitted from this reaction, but precautions for exposure to sulfuric acid should be followed.

**SECTION V - HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE:..... N/A

**EFFECTS OF OVEREXPOSURE: INGESTION:** May irritate or burn mouth, esophagus, or stomach. No exposure limits established. **INHALATION:** Irritant. May irritate or burn nose, throat and lungs. No exposure limits established. **EYE:** Mild to severe irritant. May cause burns if not flushed with water. **SKIN:** Mild to severe irritant. May cause burns if not flushed with water. **CARCINOGENICITY:** Not listed as carcinogen by NTP, IARC, or OSHA.

**EMERGENCY AND FIRST AID PROCEDURES: EYES:** Immediately flush with water for at least 15 minutes lifting eyelids to thoroughly flush. Get prompt medical attention. **SKIN:** Immediately flush with water for 15 minutes. If burns occur, obtain medical help. **INHALATION:** move to fresh air location. If irritation or discomfort persist, seek medical attention. **INGESTION:** Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs, or vegetable oil. Do not induce vomiting. Contact physician immediately.

**SECTION VI - REACTIVITY DATA**

**STABILITY:** This Product is stable

**CONDITIONS TO AVOID:** Store in dry area to avoid moisture contact.

**INCOMPATIBILITY:** (Materials to avoid)

Avoid contact with strong alkaline materials such as caustic. Reacts with water to form weak sulfuric acid solution.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

None unless heated over 570° F at which sulfur dioxide and sulfur trioxide are formed.

**HAZARDOUS POLYMERIZATION:**..... WILL NOT OCCUR

**CONDITIONS TO AVOID** ..... None

**SECTION VII - SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE OF MATERIAL RELEASED OR SPILLED:**

**Small Spill:** Material is a granular product and can be swept up from surfaces.

**Large Spill:** Pick up as much as possible with shovel or other tool. Neutralize balance of spill with weak alkaline solution, and wash down to sewer if federal, state, and local regulations permit.

**WASTE DISPOSAL METHOD:** Comply with all local, state, and federal regulations.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** (Specify type)

NIOSH or MSA certified dust mask should be worn. To control exposure below nuisance dust limits of 10 mg/m<sup>3</sup>.

**VENTILATION:**

**LOCAL EXHAUST:** Local ventilation to a dust collector is recommended.

**PROTECTIVE GLOVES:** Wear acid resistant gloves (Rubber or Neoprene).

**EYE PROTECTION:** Safety goggles or full face shield.

**OTHER PROTECTIVE EQUIPMENT:**

Clothes should completely cover skin to avoid skin contact. Coats, coveralls, or aprons are recommended.

**SECTION IX - SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

Do not store where exposed to moist conditions or near strong alkalis. Keep containers tightly closed.

**OTHER PRECAUTIONS:** Avoid contact with skin, eyes, or clothing. Wear all recommended protective equipment when handling.

This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.