

# Material Safety Data Sheet

## **SODIUM BISULFATE (Bisulfate, Aqueous Solution )**

### **SECTION 1. Chemical product and company identification**

Trade name: Bisulfate, aqueous solution

Product use: additive

Date of Issue: March 14, 2006

Emergency Health Information 1-800-328-0026 (outside United States and Canada call 1-651-222-5352)

### **SECTION 2. Composition, information on ingredients**

Name: sodium bisulfate. CAS number: 7681-38-1. % by weight 5 – 20.

### **SECTION 3. Hazards identification**

Physical state: liquid

Emergency overview: Warning! **CAUSES SEVERE EYE AND SKIN IRRITATION.** Untreated contact may cause severe irritation or chemical burns. **CAUSES RESPIRATORY TRACT IRRITATION.**

**HARMFUL IF SWALLOWED.** Do not ingest. Do not get in eyes, on skin or clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

**Potential acute health effects:** EYES: Severely irritating to eyes. Untreated contact may cause chemical burns. SKIN: Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns. INHALATION: Irritating to respiratory system. INGESTION: Harmful if swallowed. May cause burns to mouth, throat, and stomach.

**SEE TOXICOLOGICAL INFORMATION (SECTION 11)**

### **SECTION 4. First aid measures**

EYE CONTACT: in case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.

SKIN CONTACT: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

INGESTION: Rinse mouth; then drink one to two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### **SECTION 5. Fire fighting measures**

FLASH POINT: >100 C. (one hundred degrees Celsius) Product does not support combustion.

FIRE-FIGHTING MEDIA AND INSTRUCTIONS: Use an extinguishable agent suitable for the surrounding fire. Dike liquid for later disposal. No specific hazard.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### **SECTION 6. Accidental release measures**

PERSONAL PRECAUTIONS: Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Do not allow to enter drains of water courses.

ENVIRONMENTAL PRECAUTIONS: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

METHODS FOR CLEANING UP: if emergency personnel are unavailable, contained spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

### **SECTION 7. Handling and storage**

HANDLING: Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Wash thoroughly after handling.

**STORAGE:** Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store below 5 C (five degrees Celsius).

**SECTION 8. Exposure controls, personal protection**

**ENGINEERING CONTROLS:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Provide eyewash and safety shower in area if contact or splash hazard exists.

**PERSONAL PROTECTION:** **EYES:** Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles. **HANDS:** Use chemical resistant, impervious gloves. **SKIN:** Wear suitable protective clothing. **RESPIRATORY:** Avoid breathing vapors, sprays or mists. **CONSULT**

**LOCAL AUTHORITIES FOR ACCEPTABLE EXPOSURE LIMITS.**

**SECTION 9. Physical and chemical properties**

**PHYSICAL STATE:** Liquid

**COLOR:** Colorless to light blue

**ODOR:** Pungent.

**pH:** 0.5 (100%)

**BOILING/CONDENSATION POINT:** 100 C (one hundred degrees Celsius).

**SPECIFIC GRAVITY:** 1.157 (Water = 1)

**DISPERSIBILITY PROPERTIES:** Easily dispersed in cold water, hot water.

**SOLUBILITY:** Easily soluble in cold water, hot water.

**SECTION 10. Stability and reactivity**

**STABILITY:** The product is stable.

**REACTIVITY:** Reactive with alkalis.

**SECTION 11. Toxicological information**

**POTENTIAL ACUTE HEALTH EFFECTS:** **EYES:** Severely irritating to eyes. Untreated contacts may cause chemical burns. **SKIN:** Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns. **INHALATION:** Irritating to respiratory system. **INGESTION:** Harmful if swallowed. May cause burns to mouth, throat and stomach. **CHRONIC EFFECTS ON HUMANS:** Contains material which causes damage to the following organs: mucous membranes, skin, eye, lens, or cornea.

**SECTION 12. Ecological information**

**PRODUCTS OF DEGRADATION:** These products are sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub> etc.). Some metallic oxides.

**SECTION 13. Disposal considerations**

**WASTE DISPOSAL:** The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of the environmental protection and waste disposal legislation and any regional local authority requirements.

**WASTE CLASSIFICATION:** Unused product is D002 (Corrosive)

**CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES.**

**SECTION 14. Transportation information**

Regulatory Information	UN NUMBER	Proper Shipping Name	Class	Packing Group	Additional information
DOT Classification	UN 2837	Bisulfate, aqueous solution	8	III	Special provisions A7, IB3, N34, T4, TP1

**APPLIES ONLY DURING ROAD TRANSPORT.**

**ANY VARIATION OF THE SHIPPING DESCRIPTION BASED ON THE PACKAGING IS NOT ADDRESSED.**

**SECTION 15. Regulatory information**

**HCS CLASSIFICATION:** Corrosive material. Target organ effects.

**U.S. FEDERAL REGULATIONS:** SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

**TSCA 8(b) INVENTORY CALIFORNIA PROP. 65:** No products were found.