

**24 Hour Emergency Phone: CHEMTEL 1-800-255-3924**

**International 01-813-248-0585**

**Section 1 - Chemical Product and Company Identification**

Synonyms: Sodium hydrogen sulfate; sodium acid sulfate  
CAS No: 7681-38-1 (Anhydrous)  
Molecular Weight: 120.06  
Chemical Formula: NaHSO4  
Distributed by:  
Du-Lite Corporation, 171 River Road, Middletown, CT 06457 860-347-2505

**Section 2 - Composition / Information on Ingredients**

| Ingredient       | CAS No    | Percent | Hazardous |
|------------------|-----------|---------|-----------|
| Sodium Bisulfate | 7681-38-1 | 85 -90% | Yes       |

**This compound is used to activate 300 series stainless steel prior to Du-Lite's 3-0 Black Oxide process**

**Section 3 - Hazards Identification**

Emergency Overview

DANGER! CORROSIVE. CAUSES BURNS TO ANY AREA OF CONTACT. MAY BE HARMFUL OR FATAL IF SWALLOWED.

Potential Health Effects

Inhalation:

Inhalation produces damaging effects on the mucous membranes and upper respiratory tract. Symptoms may include irritation of the nose and throat, and labored breathing. May cause lung edema, a medical emergency.

Ingestion:

Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. Can cause sore throat, vomiting, diarrhea.

Skin Contact: Corrosive. Symptoms of redness, pain, and severe burn can occur.

Eye Contact:

Acidic irritant. Pain, tearing and redness can occur. Solutions are acidic and splashes may cause eye damage.

Chronic Exposure:

Lung irritation, tracheal bronchitis, persistent coughing, and corrosion of teeth are possible effects from long term exposure to mist or fumes.

Aggravation of Pre-existing Conditions: No information found.

**Section 4 - First Aid Measures**

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**GHS Label Elements**

Hazard Pictograms



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### Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

### Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## Section 5 - Fire-Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

### Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire. Water may be used to cool containers and to knock down vapors in a fire situation.

### Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## Section 6 - Accidental Release Measures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills: Pick up and place in a suitable container for reclamation or disposal.

## Section 7 - Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues; observe all warnings and precautions listed for the product.

## Section 8 - Exposure Controls / Personal Protection

Airborne Exposure Limits: None established.

### Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

### Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a half-face respirator with an acid gas cartridge and dust/mist filter may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece respirator with an acid gas cartridge and dust/mist filter may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

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## Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

## Eye Protection:

Use chemical safety goggles and/or full face shield where splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## Section 9 - Physical and Chemical Properties

|  |   |
|--|---|
| Appearance:<br>Clear, water white to slightly yellow | Boiling Point:<br>No information found.         |
| Odor:<br>Odorless.                                   | Melting Point:<br>No information found          |
| Solubility:<br>Soluble in water.                     | Vapor Density (Air=1):<br>No information found. |
| Specific Gravity:<br>1.34-1.35                       | pH of a 5% Solution:<br>1.0-1.3.                |

## Section 10 - Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Oxides of sulfur and the contained metal.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong bases, calcium hypochlorite and sodium carbonate.

Conditions to Avoid: Incompatibles.

## Section 11- Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

| Ingredient                   | ---NTP Carcinogen--- |             | IARC Category |
|------------------------------|----------------------|-------------|---------------|
|                              | Known                | Anticipated |               |
| Sodium Bisulfate (7681-38-1) | No                   | No          | None          |

## Section 12 - Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

## Section 13 - Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with federal, state and local requirements.

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## Section 14 - Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SODIUM BISULFATE)

Hazard Class: 8

UN/NA: UN3264

Packing Group: III

## Section 15 - Regulatory Information

-----\Chemical Inventory Status - Part 1\-----  
Ingredient TSCA EC Japan Australia

Sodium Bisulfate (7681-38-1) Yes Yes Yes Yes

-----\Chemical Inventory Status - Part 2\-----

Ingredient Korea DSL NDSL Phil. --Canada--

Sodium Bisulfate (7681-38-1) Yes Yes No Yes

-----\Federal, State & International Regulations - Part 1\-----

Ingredient -SARA 302- -SARA 313-  
RQ TPQ List Chemical Catg.

Sodium Bisulfate (7681-38-1) No No No No

-----\Federal, State & International Regulations - Part 2\-----

Ingredient CERCLA -RCRA- -TSCA-  
261.33 8(d)

Sodium Bisulfate (7681-38-1) No No No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No  
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No  
Reactivity: No (Mixture / Liquid)

## Section 16 - Other Information

**Prepared By:** Walter J. Smith

**Disclaimer:**

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information.

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