



THATCHER COMPANY MATERIAL SAFETY DATA SHEET  
PRODUCT: SODIUM BISULFITE, 38-40% SOLUTION  
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MSDS Date: September 30, 1998  
Emergency Contact: 1-800-424-9300

**SECTION I**

**PRODUCT NAME:** Sodium Bisulfite, 38-40% Solution  
**CHEMICAL NAME:** Sodium Bisulfite  
**CHEMICAL FAMILY:** Acid Salts

**Formula:** NaHSO<sub>3</sub>  
**MOLECULAR WEIGHT:** 104

**DOT SHIPPING INFORMATION:** Bisulfites, Aqueous Solution, n.o.s.  
(Sodium Bisulfite), 8, UN 2693, PG III

**SECTION II - HAZARDOUS INGREDIENTS**

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
Sodium Bisulfite	7631-90-5	38 - 40	TLV = 5 mg/m <sup>3</sup>

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

**SECTION III - PHYSICAL DATA**

**BOILING POINT:** 216

**SPECIFIC GRAVITY:** 1.3

**VAPOR PRESSURE (mm Hg):** vapor is water

**% VOLATILE, BY VOLUME:** 62%

**VAPOR DENSITY (air = 1):** vapor is water

**EVAPORATION RATE:** unknown

**SOLUBILITY IN WATER:** complete

**APPEARANCE AND ODOR:** Clear, colorless to pale yellow solution with a slight odor of SO<sub>2</sub>.

**SECTION IV - FIRE AND EXPLOSION DATA**

**FLASH POINT:** nonflammable

**FLAMMABLE LIMITS:**

Lel: N/A Uel: N/A

**EXTINGUISHING MEDIA:**

Use any.

**SPECIAL FIRE-FIGHTING PROCEDURES:**

None.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

None.



**SECTION V - REACTIVITY DATA**

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:**

Will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Sulfur Dioxide gas.

**SECTION VI - HEALTH HAZARD DATA**

**NFPA HAZARDOUS RATING:** Health = 1    Flammability = 0    Reactivity = 0

**CARCINOGENIC LISTING:**

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section.

**ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:**

**Contact:**            Can cause burns and severe irritation to eyes, skin and mucous membranes.

**Inhalation:**        Mist can cause respiratory discomfort.

**Ingestion:**        Can cause burns to the gastrointestinal system, which could possibly be fatal.

**STATEMENT OF PRACTICAL TREATMENT:**

**Contact:**            Wash exposed area thoroughly with water. For eyes, flush with cool water for at least 15 minutes and get prompt medical attention.

**Inhalation:**        Remove to fresh air. If discomfort persists, consult a physician.

**Ingestion:**        If conscious, give several glasses of milk or water. **Do not** induce vomiting. Call a physician at once.

**SECTION VII - SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE PRECAUTIONS:**

Avoid all bodily contact. Do not take internally. Wash thoroughly after handling. Avoid breathing mist. Store away from acids and oxidizers. Open containers carefully.

**STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:**

Wear proper safety equipment. Dike the liquid and recover into drums, if possible. Neutralize residue with soda ash and flush to sewer if permitted.



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**WASTE DISPOSAL METHOD:**

If collected material can be dissolved, it may be discharged to an industrial waste water collection system. Consult local, state or federal regulatory agencies before disposing of any material.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:**

None normally required. (Respirator if TLV is above 5 mg/m<sup>3</sup>)

**VENTILATION:**

Use ventilation to maintain TLV below 5 mg/m<sup>3</sup>.

**EYE PROTECTION:**

Chemical goggles.

**SKIN PROTECTION:**

Rubber gloves and rubber boots.

**OTHER PROTECTIVE EQUIPMENT:**

As needed to prevent all bodily contact.

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.

**ACGIH** = American Conference of Governmental Industrial Hygienists

**CL** = Ceiling Level

**IARC** = International Agency for Research on Cancer: Monographs

**OSHA** = Occupational Safety and Health Administration

**N/A** = Not Applicable

**NTP** = National Toxicology Program: Annual Report on Carcinogens

**PEL** = Permissible Exposure Level (OSHA)

**TLV** = Threshold Limit Value (ACGIH)

**TWA** = Time Weighted Average over 8 Hours

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## Sodium Hydroxide (25%) - JCI Jones Chemicals, Inc.

## M A T E R I A L S A F E T Y D A T A S H E E T

JCI Jones Chemicals, Inc.  
100 Sunny Sol Boulevard  
Caledonia, New York 14423  
(and Principal Cities)

In the event of a transportation emergency,  
Call CHEMTREC: (800) 424-9300

## SECTION I - IDENTIFICATION

TRADE NAME: Sodium Hydroxide (25%), Caustic Soda (25%)  
CHEMICAL NAME: Sodium Hydroxide  
FORMULA: NaOH  
DOT SHIPPING NAME: Sodium Hydroxide Solution  
DOT HAZARD CLASS: Corrosive Material - 8  
UN/NA NUMBER: UN 1824  
DOT LABEL: Corrosive  
DOT PLACARD: Corrosive  
REPORTABLE QUANTITY: Sodium Hydroxide: 1000 lbs/454 kg  
CAS NUMBER: 1310-73-2

## NFPA DESIGNATION 49

HAZARD-RATING: FIRE 0  
4 - EXTREME  
3 - HIGH HEALTH 3 1 REACTIVITY  
2 - MODERATE X SPECIFIC  
1 - SLIGHT  
0 - NONE  
X - BLANK

## SECTION II - HAZARDOUS INGREDIENTS

MATERIAL	% BY WEIGHT	CAS NO.	OSHA PEL	ACGIH TLV
Sodium Hydroxide	25	1310-73-2	3 2 mg/m ceiling	-3 2mg/m ceiling
Inert Ingredients	Balance	Not Applicable	Not Applicable	Not Applicable

CARCINOGENICITY STATUS: NTP - No, IARC - No, OSHA - No.