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MATERIAL SAFETY DATA SHEET  
REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

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**SECTION 1. ----- CHEMICAL IDENTIFICATION -----**

**Product Name** Sodium bromide  
**Product Code(s)** SB0837  
**Recommended Use** For Laboratory Use Only  
Not for Human or Animal Drug Use

**SECTION 2. ----- HAZARDS IDENTIFICATION -----**

**Emergency Overview**

**Target Organs**

Central nervous system

**WHMIS Classification**

Not Rated

**GHS Classification**

Acute toxicity, Oral (Category 5)  
Acute toxicity, Dermal (Category 5)  
Serious eye damage/eye irritation (Category 2B)

**GHS Label elements, including precautionary statements**

Pictogram none  
Signal word Warning  
Hazard statement(s)  
H303 + H313 May be harmful if swallowed or in contact with skin.  
H320 Causes eye irritation.  
Precautionary statement(s)  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**HMIS Classification**

**Health hazard:** 1  
**Chronic Health Hazard:** \*  
**Flammability:** 0  
**Physical hazards:** 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** May be harmful if swallowed.

**SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----**

| <b>Chemical Name</b> | <b>EC No.</b> | <b>CAS-No</b> | <b>Weight %</b> |
|----------------------|---------------|---------------|-----------------|
| Sodium bromide       | 231-599-9     | 7647-15-6     | 95-100          |

**SECTION 4. ----- FIRST-AID MEASURES-----**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**SECTION 5. ----- FIRE FIGHTING MEASURES -----**

**Conditions of flammability**

Not flammable or combustible.

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Hydrogen bromide gas, Sodium oxides

**Explosion data - sensitivity to mechanical impact**

No data available

**Explosion data - sensitivity to static discharge**

No data available

**SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----**

**Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**SECTION 7. ----- HANDLING AND STORAGE-----**

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic.

## SECTION 8. - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - -

### Personal protective equipment

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

## SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

### Appearance

|        |             |
|--------|-------------|
| Form   | crystalline |
| Colour | colourless  |

### Safety data

|                              |   |
|------------------------------|---|
| pH                           | 5.4 at 50 g/l at 20 °C (68 °F)                |
| Melting point/freezing point | Melting point/range: 755 °C (1,391 °F) - lit. |
| Boiling point                | 1,393 °C (2,539 °F) at 1,013 hPa (760 mmHg)   |
| Flash point                  | Not applicable                                |
| Ignition temperature         | No data available                             |
| Auto-ignition temperature    | No data available                             |

|   |                                     |
|---|-------------------------------------|
| Lower explosion limit                     | No data available                   |
| Upper explosion limit                     | No data available                   |
| Vapour pressure                           | 1 hPa (1 mmHg) at 806 °C (1,483 °F) |
| Density                                   | No data available                   |
| Water solubility                          | soluble                             |
| Partition coefficient:<br>n-octanol/water | No data available                   |
| Relative vapour<br>density                | No data available                   |
| Odour                                     | odourless                           |
| Odour Threshold                           | No data available                   |
| Evaporation rate                          | No data available                   |

**SECTION 10. -----STABILITY AND REACTIVITY -----**

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

Avoid moisture. Heat.

**Materials to avoid**

Strong acids, Strong oxidizing agents, Alkali metals, Halogens

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Hydrogen bromide gas, Sodium oxides Other decomposition products - No data available

**SECTION 11. ----- TOXICOLOGICAL INFORMATION -----**

**Acute toxicity**

**Oral LD50**

LD50 Oral - Rat - 3,500 mg/kg

**Inhalation LC50**

No data available

**Dermal LD50**

LD50 Dermal - Rabbit - > 2,000 mg/kg

**Other information on acute toxicity**

No data available

**Skin corrosion/irritation**

Skin - Rabbit - No skin irritation

**Serious eye damage/eye irritation**

Eyes - Rabbit - Mild eye irritation

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**Reproductive toxicity**

Reproductive toxicity - Rat - Oral

Paternal Effects: Testes, epididymis, sperm duct. Reproductive toxicity - Rat - Oral

Effects on Fertility: Mating performance (e.g., # sperm positive females per # females mated; # copulations per # estrus cycles). Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive). Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4).

No data available

**Teratogenicity**

No data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

No data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

- Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion** May be harmful if swallowed.
- Skin** May be harmful if absorbed through skin. May cause skin irritation.
- Eyes** May cause eye irritation.

**Signs and Symptoms of Exposure**

Effects due to ingestion may include:, sedation

**Synergistic effects**

No data available

**Additional Information**

RTECS: VZ3150000

**SECTION 12. ----- ECOLOGICAL INFORMATION -----**

**Toxicity**

- Toxicity to fish mortality NOEC - *Oryzias latipes* - 7,800 mg/l - 96 h  
LC50 - *Poecilia reticulata* (guppy) - 160,000 mg/l - 96 h
- Toxicity to daphnia and other aquatic invertebrates mortality NOEC - *Daphnia magna* (Water flea) - 7,800 mg/l - 48 h  
EC50 - *Daphnia magna* (Water flea) - 5,800 mg/l - 48 h

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

**SECTION 13. ----- DISPOSAL CONSIDERATIONS -----**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14. ----- TRANSPORT INFORMATION -----**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**SECTION 15. ----- REGULATORY INFORMATION -----**

**WHMIS Classification**

Not Rated

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**SECTION 16. ----- OTHER INFORMATION -----**

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Issuing Date</b>             | 13-Aug-2009               |
| <b>Revision Date</b>            | 18-Jul-2016               |
| <b>Revision Note</b>            | No information available. |
| <b>Recommended Restrictions</b> | No information available  |

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**