

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

 OSHA Haz Com: CFR 1910.1200:
 Eye Damage/Irritation [Category 1]

 WHMIS 2015:
 Corrosive to Metals [Category 1]

Signal word:

Danger!

None.

May be corrosive to metals Causes severe skin burns and eye damage

Skin Corrosion/Irritation [Category 1C]

Pictogram(s) or Symbol(s):

Hazard Statement(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. Absorb spillage to prevent material damage. Store in corrosive resistant bottle or metal container with a resistant inner liner. Store locked up. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Keep only in original container. Do not breathe dusts or mists. Wash hands and face thoroughly after

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on

handling. Wear protective gloves, protective clothing, face protection.

Hazards not otherwise classified: [HNOC] Bromodimethylsulfonium Bromide B3311

TCI AMERICA

SAFETY DATA SHEET

For laboratory research purposes. Not for drug or household use.

Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substance/mixture: Components: | Substance Bromodimethylsulfonium Bromide |
|-----------------------------------|---|
| Percent: | >98.0%(T) |
| CAS RN: | 50450-21-0 |
| Molecular Weight: | 221.94 |
| Chemical Formula: | C ₂ H ₆ Br ₂ S |

4. FIRST-AID MEASURES

| Description of first aid measures | |
|--|--|
| Inhalation: | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a |
| | POISON CENTER or doctor/physician. |
| Skin contact: | Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. |
| Eye contact: | Immediately call a POISON CENTER or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. |
| Eye contact. | Continue rinsing.Immediately call a POISON CENTER or doctor/physician. |
| Ingestion: | Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. |
| | |
| Symptoms/effects: | |
| Acute: | Pain. Redness. |
| Delayed: | No data available |
| | |
| Indication of any immediate medical atte | ention: |
| Not available. | |
| Notes to physician: | |
| No data available | |
| | |
| 5. FIRE-FIGHTING MEASURES | |
| Suitable extinguishing media: | Dry chamical fear water aprove earbon diavide |
| Suitable extinguishing media. | Dry chemical, foam, water spray, carbon dioxide. |
| Specific hazards arising from the | Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. |
| chemical: | |
| Hazardous combustion products: | These products include: Carbon oxides Sulfur oxides Halogenated compounds |
| Other specific hazards: | Closed containers may explode from heat of a fire. |
| | |
| Advice for firefighters: | Wear self-contained breathing apparatus if possible. |
| | DEC |
| 6. ACCIDENTAL RELEASE MEASU | RES |
| Developed and existing a motostice | Les personal protective againment. Keep people quipu from and upusied of apill/apir. Entry to |
| Personal precautions, protective | Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. |
| Environmental precautions: | Prevent product from entering drains. |
| | Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected |
| and cleaning up: | material should be promptly disposed of, in accordance with appropriate laws and regulations. |
| 3.4 | |
| 7. HANDLING AND STORAGE | |
| | |
| Precautions for safe handling: | Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent |
| | dispersion of dust. Wash hands and face thoroughly after handling. |
| | Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. |
| | Avoid contact with skin, eyes and clothing. |
| Conditions for onfo stands in the first | Use corrosive resistant equipment. |
| Conditions for safe storage, including a | |
| Storage conditions: | Keep container tightly closed. Store in a freezer. Store under inert gas. Protect from moisture. Store locked up. |
| | Store away from incompatible materials such as oxidizing agents. |
| | Heat-sensitive Light-sensitive Moisture-sensitive |
| Packaging material: | Comply with laws. Keep only in original container. |
| | ······································ |
| | |

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Appropriate engineering controls: | Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath. |
|-----------------------------------|---|
| Personal protective equipment | |
| Respiratory protection: | Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations. |
| Hand protection: | Impervious gloves. |
| Eye protection: | Safety goggles. A face-shield, if the situation requires. |
| Skin and body protection: | Impervious protective clothing. Protective boots, if the situation requires. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold: | Solid Crystal - Powder Pale yellow - Yellow red No data available No data available No data available | | |
|---|--|--|--------------------|
| Melting point/freezing point: | 82°C (180°F) | pH: | No data available |
| Boiling point/range: | No data available | Vapour pressure: | No data available. |
| Decomposition temperature: | No data available | Vapour density: | No data available |
| Relative density: | No data available | Dynamic Viscosity: | No data available |
| Kinematic viscosity: | No data available | | |
| Log Pow: | No data available | Evaporation rate(Butyl Acetate=1): | No data available |
| Flash point: Flammability(solid, gas): | No data available No data available | Autoignition temperature: Flammability or explosive limits: | No data available |
| | | Lower: | No data available |
| | | Upper: | No data available |
| Solubility(ies): [Water] [Other solvents] | No data available No data available | | |

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Incompatible materials: Hazardous decomposition products: No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents, Bases Carbon dioxide, Carbon monoxide, Sulfur oxides, Hydrogen bromide

11. TOXICOLOGICAL INFORMATION

| Acute Toxicity: No data available | | | | |
|--|--|---|---|-----------------------------------|
| Skin corrosion/irritation: No data available | | | | |
| Serious eye damage/irritation: No data available | | | | |
| Respiratory or skin sensitization: No data available | | | | |
| Germ cell mutagenicity: No data available | | | | |
| Carcinogenicity: No data available | | | | |
| IARC: No data available | NTP: | No data available | OSHA: | No data available |
| Reproductive toxicity: No data available | | | | |
| Target organ(s): | No data available | | | |
| 12. ECOLOGICAL INFORMATION | | | | |
| Ecotoxicity: | | | | |
| Fish: | No data available | | | |
| Crustacea: | No data available | | | |
| Algae: | No data available | | | |
| Persistence / degradability: | | | | |
| | No data available | | | |
| Bioaccumulative potential(BCF): | No data available No data available | | | |
| | | | | |
| Bioaccumulative potential(BCF): Mobility in soil | No data available | | | |
| Bioaccumulative potential(BCF): Mobility in soil Log Pow: | No data available No data available | | | |
| Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc): Henry's Law (PaM ³ /mol): | No data available No data available No data available No data available | | | |
| Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc): Henry's Law (PaM ³ /mol): 13. DISPOSAL CONSIDERATIONS | No data available No data available No data available No data available | | | |
| Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc): Henry's Law (PaM ³ /mol): | No data available No data available No data available No data available No data available Recycle to process Local rules and re and burn in a cher intended to provide with this section er Identification and I be allowed to ente | gulations. You may be able to nical incinerator equipped wit e assistance but does not rep nsure regulatory compliance | o dissolve or mix mai th an afterburner and blace these laws, nor according to the law. are listed in 40 CFR F ater ways, or the soil. | Parts 261. The product should not |

14. TRANSPORT INFORMATION

| DOT (US) UN number: UN3261 | Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s | Class or Division: 8 Corrosive material | Packing Group: |
|----------------------------------|--|---|-----------------------|
| IATA UN number: UN3261 | Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s | Class or Division: 8 Corrosive material | Packing Group: |
| IMDG UN UN3261 numb er: | Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s | Class or Division: 8 Corrosive material | Packing Group: III |
| EmS number: | F-A, S-B | | |

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

| CERCLA Hazardo | ous substance | and Reportable Quantity: | |
|----------------------------|---------------|--------------------------|----------------------|
| SARA 313: | | Not Listed | |
| SARA 302: | | Not Listed | |
| State Regulation | <u>s</u> | | |
| State Right-to-Kr | low | | |
| Massachuse | tts | Not Listed | |
| New Jersey | | Not Listed | |
| Pennsylvania | a | Not Listed | |
| California Proposition 65: | | Not Listed | |
| Other Information | <u>n</u> | | |
| NFPA Rating: | | | HMIS Classification: |
| Health: | 1 | | Health: |
| Flammability: | 0 | | Flammability: |
| Instability: | 1 | | Physical: |
| | | | |

International Inventories

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

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