

# TCI AMERICA SAFETY DATA SHEET

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

# 1. IDENTIFICATION

Product name: Bromobenzene

Product code: B0439

For laboratory research purposes. Product use: Restrictions on use: Not for drug or household use.

Company: TCI America

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Emergency telephone number:

Chemical Emergencies:

TCI America (8:00am - 5:00pm) PST

+1-503-286-7624

Transportation Emergencies: Chemtrec 24-Hour

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Responsible department:

TCI America

Environmental Health Safety and Security

+1-503-286-7624

# 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Skin Corrosion/Irritation [Category 2]

WHMIS 2015:

Eye Damage/Irritation [Category 2A]

Specific Target Organ Toxicity (Repeated Exposure) [Category 2]

Flammable Liquids [Category 3] Aquatic Hazard (Acute) [Category 2] Aquatic Hazard (Long-Term) [Category 2]

Warning! Signal word:

Hazard Statement(s): Flammable liquid and vapor

Causes skin irritation Causes serious eye irritation Toxic to aquatic life

Toxic to aquatic life with long lasting effects

May cause damage to organs through prolonged or repeated exposure: Liver Nervous System

Pictogram(s) or Symbol(s):









Precautionary Statement(s): [Prevention]

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist, vapors or spray. Avoid release to the environment. Wash hands and

face thoroughly after handling. Wear protective gloves, eye protection.

If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. [Response]

Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. Get medical advice or attention if you feel unwell. Collect

Store in a well-ventilated place. Keep cool. [Storage]

[Disposal] 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.).

Hazards not otherwise classified:

[HNOC]

May be harmful if swallowed.

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# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance Components: Bromobenzene Percent: >99.0%(GC) CAS RN: 108-86-1 Molecular Weight: 157.01 C<sub>6</sub>H<sub>5</sub>Br **Chemical Formula:** 

# 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. Get medical

advice/attention if you feel unwell.

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If Skin contact:

skin irritation or rash occurs: Get medical advice/attention.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Eye contact:

Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth.

Symptoms/effects:

Redness. Acute:

Delayed: No data available

#### Indication of any immediate medical attention:

Not available.

Notes to physician: No data available

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

Solid streams of water Unsuitable extinguishing media:

Specific hazards arising from the

chemical:

Hazardous combustion products:

Other specific hazards:

These products include: Carbon oxides Halogenated compounds

Closed containers may explode from heat of a fire.

Advice for firefighters: Wear self-contained breathing apparatus if possible.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

controlled around the leakage area by roping off, etc.

**Environmental precautions:** Methods and materials for containment

and cleaning up:

Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned. Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use Prevention of secondary hazards:

spark-proof tools and explosion-proof equipment.

#### 7. HANDLING AND STORAGE

Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent

generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling.

Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws. **Bromobenzene TCI AMERICA** Page 3 of 5

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed Appropriate engineering controls:

system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Vapor respirator. Follow local and national regulations. Respiratory protection:

Hand protection: Protective gloves.

Safety glasses. A face-shield, if the situation requires. Eye protection: Skin and body protection: Protective clothing. Protective boots, if the situation requires.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid Form: Clear

Colorless - Almost colorless Colour:

Odour: No data available Odor threshold: No data available Odour threshold: No data available

Melting point/freezing point: No data available pH: No data available 156°C (313°F) Vapour pressure: Boiling point/range: No data available. **Decomposition temperature:** No data available Vapour density: No data available Relative density: Dynamic Viscosity: No data available 1.50

Kinematic viscosity: No data available

No data available **Evaporation rate(Butyl** No data available Log Pow:

Acetate=1):

Flash point: 51°C (124°F) Autoignition temperature: 566°C (1051°F)

Flammability(solid, gas): No data available Flammability or explosive limits:

> Lower: 6%

Upper: 36.5%

Solubility(ies):

[Water] No data available No data available [Other solvents]

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under proper conditions. Possibility of hazardous reactions: No special reactivity has been reported. Conditions to avoid: Spark, Open flame, Static discharge

Incompatible materials: Oxidizing agents

Hazardous decomposition products: Carbon dioxide, Carbon monoxide, Hydrogen bromide Bromobenzene TCI AMERICA Page 4 of 5

# 11. TOXICOLOGICAL INFORMATION

RTECS Number: CY9000000

**Acute Toxicity:** 

orl-rat LD50:2383 mg/kg ihl-rat LC50:20411 mg/m³ ipr-rat LD50:3882 mg/kg scu-mus LD50:2 g/kg

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):

May cause damage to organs through prolonged or repeated exposure: Liver Nervous System

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** 

Fish: 48h LC50:6.8 ppm (Oryzias latipes)

Crustacea: No data available
Algae: No data available

Persistence / degradability: 0 % (by BOD) , 1 % (by GC)

Bioaccumulative potential(BCF): 8.8 - 34 (conc. 50 ppb), 12 - 33 (conc. 5 ppb)

Mobility in soil

Log Pow: 2.99
Soil adsorption (Koc): 268
Henry's Law (PaM³/mol): 211

13. DISPOSAL CONSIDERATIONS

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and

Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for

Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not

be allowed to enter the environment, drains, water ways, or the soil.

**Disposal of container:** Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

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#### 14. TRANSPORT INFORMATION

DOT (US)

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN2514 Bromobenzene 3 Flammable liquid

<u>IATA</u>

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN2514 Bromobenzene 3 Flammable liquid II

**IMDG** 

UN UN2514 Proper Shipping Name: Class or Division: Packing Group:

numb Bromobenzene 3 Flammable liquid III

er:

Marine Pollutant:Marine PollutantEmS number:F-E, S-D

#### 15. REGULATORY INFORMATION

#### Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

#### **US Federal Regulations**

## **CERCLA Hazardous substance and Reportable Quantity:**

SARA 313: Not Listed SARA 302: Not Listed

#### **State Regulations**

State Right-to-Know

MassachusettsListedNew JerseyListedPennsylvaniaListedCalifornia Proposition 65:Not Listed

## Other Information

NFPA Rating:

Health: 2

Flammability: 2

Instability: 0

HMIS Classification:

Health: 1

Flammability: 2

Flammability: 2

Physical: 0

**International Inventories** 

 Canada: DSL
 On DSL

 EC-No:
 203-623-8

# 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.