

# **SAFETY DATA SHEET**

According to 1907/2006/EC, Article 31

Revision number: 1 Revision date: 10/02/2018

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Bromodichloromethane (stabilized with Ethanol)

Product code: B1011

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht

Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.com

**1.4 Emergency telephone number:** +32(0)70 245 245

#### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute toxicity (Oral)Category 4Germ cell mutagenicityCategory 1BCarcinogenicityCategory 2Reproductive toxicityCategory 1A

Specific target organ toxicity - Single exposure [Category 3] Respiratory tract irritation, Narcotic effects
Specific target organ toxicity - Repeated exposure [Category 2] Liver, Thyroid gland, Nervous system, Kidney

#### 2.2 Label elements

Pictograms or hazard symbols



Signal word Danger

Hazard statements H302-Harmful if swallowed.

H340-May cause genetic defects. H351-Suspected of causing cancer.

H360FD-May damage fertility. May damage the unborn child.

H373-May cause damage to organs through prolonged or repeated exposure : Liver Thyroid gland

Nervous system Kidney

H335-May cause respiratory irritation. H336-May cause drowsiness or dizziness. P260-Do not breathe mist, vapours or spray.

**Precautionary statements** P260-Do not breathe mist, vapours or spray.

P270-Do not eat, drink or smoke when using this product. P280-Wear protective gloves, protective clothing, face protection.

P304+P340+P312-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a

POISON CENTER or doctor if you feel unwell.

P308+P313-IF exposed or concerned: Get medical advice or attention. P403+P233-Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

Bromodichloromethane (stabilized with Ethanol)

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#### SECTION 3: Composition/information on ingredients

3.1 Substances

Components: Bromodichloromethane (stabilized with Ethanol)

 Percent:
 >96.0%(GC)

 CAS RN:
 75-27-4

 EC-No:
 200-856-7

 Chemical Formula:
 CHBrCl2

#### SECTION 4: First aid measures

4.1 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.

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

Get medical advice/attention.

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

medical advice/attention.

**Ingestion:** Get medical advice/attention.Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

#### 4.2 Most important symptoms and effects, both acute and delayed

No data available

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

#### SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the

substance or mixture

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

Carbon dioxide, Carbon monoxide, Hydrogen chloride, Hydrogen bromide

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure

to wear personal protective equipment

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off,

etc

6.2 Environmental precautions

Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). 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.

6.4 Reference to other sections

For disposal see section 13.

#### SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. 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 all contact!

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a refrigerator. Store under inert gas.

Store locked up. Store away from incompatible materials such as oxidizing agents.

Heat-sensitive, Air-sensitive

7.3 Specific end use(s)

No further relevant information available.

# SECTION 8: Exposure controls/personal protection

8.1 Control parameters No data available

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

Respiratory protection: Half or full facepiece 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.

Impervious protective clothing. Protective boots, if the situation requires. Skin and body protection:

#### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

Colour: Colorless - Pale yellow Odour: No data available No data available pH: Melting point/freezing point: No data available

87°C Boiling point/range:

Flash point: No data available Evaporation rate(Butyl Acetate=1): No data available Flammability(solid, gas): No data available

Flammability or explosive limits:

Lower: No data available No data available Upper: Vapour pressure: No data available. Vapour density: No data available

Relative density: 1.98

Solubility(ies):

[Water] Insoluble

[Other solvents]

Soluble: Ether, Benzene, Acetone, Ethanol

Partition coefficient: 1.88

n-octanol/water: Autoignition temperature: No data available **Decomposition temperature:** No data available No data available **Dynamic Viscosity:** No data available Kinematic viscosity:

9.2 Other safety information No data available

#### SECTION 10: Stability and reactivity

10.1 Reactivity No data available

Stable under proper conditions. 10.2 Chemical stability

10.3 Possibility of hazardous reactions No special reactivity has been reported.

10.4 Conditions to avoid No data available

10.5 Incompatible materials Oxidizing agents, Strong bases, Magnesium

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Hydrogen chloride, Hydrogen bromide

(stabilized with Ethanol)

#### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Skin corrosion/irritation:

orl-mus LD50:450 mg/kg **Acute Toxicity:** 

orl-rat LD50:430 mg/kg No data available

Serious eye damage/irritation: No data available No data available Respiratory or skin sensitization:

Germ cell mutagenicity: mmo-sat 10 ug/plate (-S9)

mmo-sat 50 mg/plate (+S9) sce-hmn-lym 400 umol/L sce-mus-orl 200 mg/kg/4D-I

orl-mus TDLo:25500 mg/kg/2Y-C Carcinogenicity:

orl-rat TDLo:25500 mg/kg/2Y-C orl-mus TD:38250 mg/kg/2Y-C orl-rat TD:51 g/kg/2Y-C

IARC = Group 2B (Possibly carcinogenic to humans) NTP = b (Reasonably anticipated to be carcinogens)

No data available Reproductive toxicity: No data available STOT-single exposure: No data available STOT-repeated exposure: Aspiration hazard: No data available **RTECS Number:** PA5310000

# SECTION 12: Ecological information

#### 12.1 Toxicity

No data available Fish: No data available Crustacea: No data available Algae:

No data available 12.2 Persistence and degradability

No data available 12.3 Bioaccumulative potential

12.4 Mobility in soil

Log Pow: 1.88

No data available Soil adsorption (Koc): No data available Henry's Law (PaM 3/mol):

12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

12.6 Other adverse effects No data available

# SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. Observe all federal, state and local regulations when disposing of the substance.

(stabilized with Ethanol)

#### SECTION 14: Transport information

14.1 UN number Not listed

14.2 UN proper shipping name

ADR/RID Not listed
IMDG/IMO Not listed
ICAO/IATA Not listed

14.3 Transport hazard class(es)

ADR/RID Does not correspond to the classification standard of the United Nations
IMDG/IMO Does not correspond to the classification standard of the United Nations
ICAO/IATA Does not correspond to the classification standard of the United Nations

14.4 Packaging group

ADR/RID IMDG/IMO ICAO/IATA -

14.5 Environmental hazards

Marine pollutant

14.6 Special precautions for user No data available

#### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Substance of Very High Concern (SVHC) according to the Not listed

REACH Regulations (EC) No.1907/2006

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Prepared by: TCI EUROPE N.V. Issue date: 10/02/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

**End of Safety Data Sheet**