

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Bromomethane-d3

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008

Gases under pressure

Germ cell mutagenicity (Category 2)

Acute toxicity, Inhalation (Category 3)

Acute toxicity, Oral (Category 3)

Specific target organ toxicity - repeated exposure (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

Skin irritation (Category 2)

Acute aquatic toxicity (Category 1)

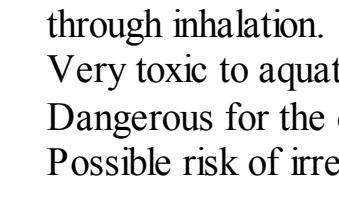
Hazardous to the ozone layer

According to European Directive 67/548/EEC as amended.

Possible risk of irreversible effects. Very toxic to aquatic organisms. Dangerous for the ozone layer. Toxic by inhalation and if swallowed. Irritating to eyes, respiratory system and skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Label elements

Pictogram



Signal word

Danger

Hazard statement(s)

H301

Toxic if swallowed.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H331

Toxic if inhaled.

H335

May cause respiratory irritation.

H341

Suspected of causing genetic defects.

H373

May cause damage to organs through prolonged or repeated exposure.

H400

Very toxic to aquatic life.

EUH059

Hazardous to the ozone layer.

Precautionary statement(s)

P261

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P273

Avoid release to the environment.

P281

Use personal protective equipment as required.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P311

Call a POISON CENTER or doctor/ physician.

Hazard symbol(s)

T

Toxic

N

Dangerous for the environment

R-phrase(s)

R23/25

Toxic by inhalation and if swallowed.

R36/37/38

Irritating to eyes, respiratory system and skin.

R48/20

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R50

Very toxic to aquatic organisms.

R59

Dangerous for the ozone layer.

R68

Possible risk of irreversible effects.

S-phrase(s)

S15

Keep away from heat.

S27

Take off immediately all contaminated clothing.

S36/39

Wear suitable protective clothing and eye/face protection.

S38

In case of insufficient ventilation, wear suitable respiratory equipment.

S45

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S59

Refer to manufacturer/supplier for information on recovery/recycling.

S61

Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Methyl-d3 bromide

Methyl-d3 bromide

Formula : CBrD3 CD3Br

Molecular Weight : 97,96 g/mol 97,96 g/mol

CAS-No. EC-No.

Classification

Concentration

Bromomethane-d3

1111-88-2

214-186-8

Press. Gas ; Muta. 2; Acute

Tox. 3, STOT RE 2; Eye Irrit.

2; STOT SE 3; Skin Irrit. 2;

Aquatic Acute 1; Ozone ;

H301, H315, H319, H331,

H335, H341, H373, H400,

EUH059

T, N, Mut.Cat.3, R23/25 -

R36/37/38 - R48/20 - R50 -

R59 - R68

For the full text of the H-Statements mentioned in this Section, see Section 16.

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. Take victim immediately to hospital. 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

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Clean up promptly by sweeping or vacuum.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage

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

Store under inert gas. hygroscopic

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals. Flame retardant antistatic protective 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

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form gaseous

Safety data

pH no data available

Melting point -94 °C - lit.

Boiling point 4 °C - lit.

Flash point no data available

Ignition temperature no data available

Lower explosion limit 8,6 % (V) at 1013 hPa

Upper explosion limit 20 % (V) at 1013 hPa

Vapour pressure 1.900,0 hPa at 20 °C

Density 3,41 g/mL at 25 °C

Density 3,41 g/cm³ at 25 °C

Water solubility no data available

EMs-No: F-C S-U

10. STABILITY AND REACTIVITY

Chemical stability

Stable Stable under recommended storage conditions.

Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.