

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

Product name : Chloromethane-d3

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Flammable gases (Category 1)

Gases under pressure (Liquefied gas)

Carcinogenicity (Category 2)

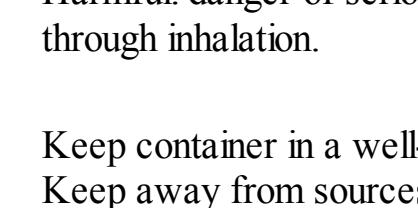
Specific target organ toxicity - repeated exposure (Category 2)

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

Extremely flammable. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Label elements

Pictogram



Signal word

Danger

Hazard statement(s)

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P281 Use personal protective equipment as required.

P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Hazard symbol(s)

F+ Extremely flammable

Xn Harmful

R-phrase(s)

R12 Extremely flammable.

R40 Limited evidence of a carcinogenic effect.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

S-phrase(s)

S9 Keep container in a well-ventilated place.

S16 Keep away from sources of ignition - No smoking.

S33 Take precautionary measures against static discharges.

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Methyl-d3 chloride
Methyl-d3 chloride

Formula : C1 ClD3 CD3Cl

Molecular Weight : 53,51 g/mol 53,51 g/mol

CAS-No.	EC-No.	Classification	Concentration
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Chloromethane-d3

1111-89-3	-	Flam. Gas 1; Press. Gas ; Carc. 2; STOT RE 2; H220, H280, H351, H373 F+, Xn, Carc.Cat.3, R12 - R40 - R48/20	-
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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. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

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

Normal measures for preventive fire protection.

Conditions for safe storage

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

opened must be carefully resealed and kept upright to prevent leakage.

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. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Liquefied gas

Safety data

pH no data available

Melting point -97 °C - lit.

Boiling point -24,2 °C - lit.

Flash point no data available

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Density 0,97 g/mL at 25 °C

0,97 g/cm3 at 25 °C

Water solubility no data available

10. STABILITY AND REACTIVITY

Chemical stability

May decompose on exposure to moist air or water. Stable under recommended storage conditions.

Conditions to avoid

no data available

Materials to avoid

no data available

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

Carcinogenicity

Limited evidence of carcinogenicity in animal studies

IARC: 3 - Not classifiable as to its carcinogenicity to humans (Chloromethane-d3)

Reproductive toxicity

Specific target organ toxicity - single exposure

no data available

Inhalation - May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

no data available

Potential health effects

no data available

Inhalation

Harmful if inhaled. May cause respiratory tract irritation.

Ingestion

Harmful if swallowed. May cause damage to the digestive tract.

Eyes

Harmful if exposed through skin. May cause skin irritation.

Skin and symptoms of Exposure

Methyl chloride is rapidly absorbed through the lungs and is excreted very slowly from the body. Symptoms of exposure include: dizziness, headache, weakness, unsteady walk, nausea, vomiting, abdominal pain, extreme nervousness, mental confusion, recovery from a convulsion, unconsciousness and death, damage to the central nervous system. Apparent recovery within a few days or weeks exposure via inhalation may be fatal. Repeated exposures by inhalation - May cause damage to organs through prolonged or repeated exposure.

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity

no data available

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

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.

14. TRANSPORT INFORMATION

ADR/RID

UN-Number: 1063 Class: 2.1

Proper shipping name: METHYL CHLORIDE

EMS-No: F-D, S-U

IMDG: 1063 Class: 2.1

Proper shipping