2-Bromopropane (CAS 75-26-3) MSDS

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

1.1 Product identifiers

Product name : 2-bromopropane
Product Number : B78114
Brand : 
Index-No. : 602-085-00-5
CAS-No. : 75-26-3

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

Identified uses : Laboratory chemicals, Manufacture of substances

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
- Flammable liquids (Category 2)
- Reproductive toxicity (Category 1A)
- Specific target organ toxicity - repeated exposure (Category 2)

Classification according to EU Directives 67/548/EEC or 1999/45/EC
- Highly flammable. May impair fertility. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram

Signal word | Danger
---|---
Hazard statement(s)
H225 | Highly flammable liquid and vapour.
H360 | May damage fertility or the unborn child.
H373 | May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s)
P201 | Obtain special instructions before use.
P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P308 + P313 | IF exposed or concerned: Get medical advice/attention.

Supplemental Hazard information (EU)
EUH006 | Repeated exposure may cause skin dryness or cracking.

Restricted to professional users.


Hazard symbol(s)

R-phrase(s)
R60 | May impair fertility.
R48/20 | Also harmful: danger of serious damage to health by prolonged exposure through inhalation.
R11 | Highly flammable.
R66 | Repeated exposure may cause skin dryness or cracking.

S-phrase(s)
S53 | Avoid exposure - obtain special instructions before use.
S45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Restricted to professional users.

2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms | Isopropyl bromide
4. **FIRST AID MEASURES**

4.1 **Description of 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**
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 **Most important symptoms and effects, both acute and delayed**
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

no data available

5. **FIREFIGHTING MEASURES**

5.1 **Extinguishing media**

**Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 **Special hazards arising from the substance or mixture**

Carbon oxides, Hydrogen bromide gas

5.3 **Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 **Further information**
Use water spray to cool unopened containers.

6. **ACCIDENTAL RELEASE MEASURES**

6.1 **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. 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.

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

6.3 **Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 **Reference to other sections**
For disposal see section 13.

7. **HANDLING AND STORAGE**

7.1 **Precautions for safe handling**
Avoid exposure - obtain special instructions before use. 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.

7.2 **Conditions for safe storage, including any incompatibilities**
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.

7.3 **Specific end uses**
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face 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 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.

Immersion protection
Material: Fluorinated rubber
Minimum layer thickness: 0,7 mm
Break through time: > 480 min
Material tested: Vitoject® (Z677698, Size M)

Splash protection
Material: Fluorinated rubber
Minimum layer thickness: 0,7 mm
Break through time: > 30 min
Material tested: Vitoject® (Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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.

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).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance
b) Odour
c) Odour Threshold
d) pH
e) Melting point/freezing point
f) Initial boiling point and boiling range
g) Flash point
h) Evaporation rate
i) Flammability (solid, gas)
j) Upper/lower flammability or explosive limits
k) Vapour pressure

Form: liquid
no data available
no data available
no data available
Melting point/range: -89 °C - lit.
59 °C - lit.
19 °C - closed cup
no data available
no data available
no data available
320 hPa at 20 °C
l) Vapour density 4.25 - (Air = 1.0)
m) Relative density 1.31 g/cm³ at 25 °C
n) Water solubility no data available

Log Pow: 1.9
o) Partition coefficient: n-octanol/water

p) Autoignition temperature no data available

q) Decomposition temperature no data available

r) Viscosity no data available

s) Explosive properties no data available
t) Oxidizing properties no data available

9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
no data available

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials
Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LC50 Inhalation - mouse - 4 h - 31171 ppm

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
Presumed human reproductive toxicant

Reproductive toxicity - rat - Inhalation
Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth).

Reproductive toxicity - rat - Intraperitoneal
Maternal Effects: Ovaries, fallopian tubes. Maternal Effects: Menstrual cycle changes or disorders.

Reproductive toxicity - rat - Subcutaneous
Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).
Known human reproductive toxicant

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard
Potential health effects

- **Inhalation** Harmful if inhaled. May cause respiratory tract irritation.
- **Ingestion** Harmful if swallowed.
- **Skin** Harmful if absorbed through skin. May cause skin irritation.
- **Eyes** May cause eye irritation.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information
RTECS: TX4111000

12. **ECOLOGICAL INFORMATION**

12.1 **Toxicity**
Toxicity to fish LC50 - Carassius auratus (goldfish) - 150 mg/l - 24 h

12.2 **Persistence and degradability**
no data available

12.3 **Bioaccumulative potential**
no data available

12.4 **Mobility in soil**
no data available

12.5 **Results of PBT and vPvB assessment**
no data available

12.6 **Other adverse effects**
no data available

13. **DISPOSAL CONSIDERATIONS**

13.1 **Waste treatment methods**

- **Product**
  Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

- **Contaminated packaging**
  Dispose of as unused product.

14. **TRANSPORT INFORMATION**

14.1 **UN number**
ADR/RID: 2344 IMDG: 2344 IATA: 2344

14.2 **UN proper shipping name**
ADR/RID: BROMOPROPANES IMDG: BROMOPROPANES IATA: Bromopropanes

14.3 **Transport hazard class(es)**
ADR/RID: 3 IMDG: 3 IATA: 3

14.4 **Packaging group**
ADR/RID: II IMDG: II IATA: II

14.5 **Environmental hazards**
ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 **Special precautions for user**
no data available

15. **REGULATORY INFORMATION**
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
no data available

15.2 **Chemical Safety Assessment**
no data available

16. **OTHER INFORMATION**
Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information this document is based on the resent state of our knowledge and is applicable to the product with regard to appropriate safety precautions.
It does not represent any guarantee of the properties of the product. guidechem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.