

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Propargyl bromide solution

Product Number : 81831
Brand : Fluka

Company : Sigma-Aldrich Canada, Ltd
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CANADA

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 3-Bromo-1-propyne

Formula : C₃H₃Br

| CAS-No. | EC-No. | Index-No. | Concentration |
|-----------------------|-----------|--------------|---------------|
| 3-Bromopropyne | | | |
| 106-96-7 | 203-447-1 | - | 80 % |
| Toluene | | | |
| 108-88-3 | 203-625-9 | 601-021-00-3 | 20 % |

3. HAZARDS IDENTIFICATION**Emergency Overview****Target Organs**

Central nervous system, Bladder, Liver, Kidney, Brain.

WHMIS Classification

| | | |
|-----|------------------|-------------------------------|
| B2 | Flammable Liquid | Flammable Liquid |
| D1B | | Toxic by ingestion |
| D2A | | Teratogen |
| D2B | | Reproductive hazard |
| | | Moderate skin irritant |
| | | Moderate respiratory irritant |
| | | Moderate eye irritant |

HMS Classification

Health Hazard: 2
Chronic Health Hazard: *
Flammability: 3

Physical hazards: 0

Potential Health Effects

| | |
|-------------------|---|
| Inhalation | May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness. |
| Skin | May be harmful if absorbed through skin. Causes skin irritation. |
| Eyes | Causes eye irritation. |
| Ingestion | Toxic if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage. |

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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

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

Flammable properties

Flash point 18 °C (64 °F) - closed cup

Ignition temperature no data available

Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

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. 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.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

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.

Storage

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 in cool place.

Recommended storage temperature: 2 - 8 °C

Light sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value | Control parameters | Update | Basis |
|------------|---|-----------|---------------------------------|------------|---|
| Toluene | 108-88-3 | TWA | 20 ppm | 2007-07-06 | Canada. British Columbia OEL |
| | | TWAE V | 50 ppm | 2005-02-03 | Canada. Ontario OELs |
| | | TWA | 50 ppm 188 mg/m ³ | 2007-01-01 | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| Remarks | Substance may be readily absorbed through intact skin | | | | |
| | | TWAE V | 50 ppm 188 mg/m ³ | 2006-12-29 | Canada. Quebec OELs |
| | Skin (percutaneous) | | | | |
| | | TWAE V | 20 ppm | 2008-07-16 | Canada. Ontario OELs |

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 ABEK (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.

Eye protection

Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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 liquid

Safety data

pH no data available
Melting point no data available
Boiling point no data available
Flash point 18 °C (64 °F) - closed cup
Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Density 1.38 g/mL at 20 °C (68 °F)
Water solubility no data available

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Conditions to avoid

Heat.
Heat, flames and sparks.

Materials to avoid

Mercury/mercury oxides., Silver/silver oxides, Peroxides

Hazardous decomposition products

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

Hazardous reactions

Vapours may form explosive mixture with air.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Toluene)

Signs and Symptoms of Exposure

Headache

Potential Health Effects

| | |
|----------------------|---|
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| Target Organs | Central nervous system, Bladder, Liver, Kidney, Brain., |

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

13. DISPOSAL CONSIDERATIONS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 2345 Class: 3 Packing group: II
 Proper shipping name: 3-Bromopropyne
 Marine pollutant: No
 Poison Inhalation Hazard: No

IMDG

UN-Number: 2345 Class: 3 Packing group: II EMS-No: F-E, S-D
 Proper shipping name: 3-BROMOPROPYNE
 Marine pollutant: No

IATA

UN-Number: 2345 Class: 3 Packing group: II
 Proper shipping name: 3-Bromopropyne

15. REGULATORY INFORMATION

DSL Status

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

3-Bromopropyne

CAS-No.
106-96-7

WHMIS Classification

B2 Flammable Liquid
D1B

Flammable Liquid
Toxic by ingestion

D2A
D2B

Teratogen
Reproductive hazard
Moderate skin irritant
Moderate respiratory irritant
Moderate eye irritant

16. OTHER INFORMATION

Further information

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