

# Safety Data Sheet

fluorochem.

## 1. Identification of the substance/mixture

### 1.1 Product identification

Product name	Propargyl bromide (80% in toluene) (stabilized with 0.3% MgO)
Other names	3-Bromopropyne
Product code	F167400
CAS	106-96-7
MDL	MFCD00000241
EINECS	203-447-1
REACH Registration number	

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

Relevant uses	For research and development purposes.
Uses advised against	No uses advised.

### 1.3 Safety Data Sheet supplier details

Company	Fluorochem Ltd
Address	Unit 14, Graphite Way Hadfield Glossop Derbys. SK13 1QH United Kingdom
Telephone	+44 1457 860111
Email	sds@fluorochem.co.uk

### 1.4 Emergency Telephone

Emergency Telephone	+44 20 3807 3798 (Poison Information)
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## 2. Hazard Identification

## 2.1 Classification of the substance or mixture

Classification	H225 Flam. Liq. 2
	H361d Repr. 2
	H336 STOT SE 3
	H412 Aquatic Chronic 3
	H335 STOT SE 3
	H304 Asp. Tox. 1
	H315 Skin Irrit. 2
	H314 Skin Corr. 1B
	H373 STOT RE 2

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## 2.2 Label Elements

Signal Word

**Danger**

Pictograms



GHS02



GHS05



GHS07



GHS08

## Hazards

**H225** Highly flammable liquid and vapour.  
**H361d** Suspected of damaging the unborn child.  
**H336** May cause drowsiness or dizziness.  
**H412** Harmful to aquatic life with long lasting effects.  
**H335** May cause respiratory irritation.  
**H304** May be fatal if swallowed and enters airways.  
**H315** Causes skin irritation.  
**H314** Causes severe skin burns and eye damage.  
**H373** May cause damage to organs through prolonged or repeated exposure.

## Precautions

**P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P260** Do not breathe dust/fume/gas/mist/vapours/spray.  
**P501** Dispose of contents/container to hazardous waste disposal.  
**P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P403+P235** Store in a well-ventilated place. Keep cool.  
**P240** Ground and bond container and receiving equipment.  
**P321** Specific treatment (see Section 4 on this SDS).  
**P405** Store locked up.  
**P391** Collect spillage.  
**P264** Wash hands thoroughly after handling.  
**P342+P311** If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
**P243** Take action to prevent static discharges.  
**P233** Keep container tightly closed.  
**P270** Do not eat, drink or smoke when using this product.  
**P242** Use non-sparking tools.  
**P310** Immediately call a POISON CENTER/doctor.  
**P370+P378** In case of fire: Use dry sand to extinguish.  
**P333+P313** If skin irritation or rash occurs: Get medical advice/attention.  
**P308+P313** IF exposed or concerned: Get medical advice/attention.  
**P271** Use only outdoors or in a well-ventilated area.  
**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
**P241** Use explosion-proof equipment.  
**P301+P310** IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
**P361+P364** Take off immediately all contaminated clothing and wash it before reuse.  
**P301+P330+P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
**P273** Avoid release to the environment.  
**P201** Obtain special instructions before use.  
**P280** Wear protective gloves/protective clothing and eye/face protection.  
**P101** If medical advice is needed, have product container or label at hand.  
**P302+P352** IF ON SKIN: Wash with plenty of water and

soap.

**P202** Do not handle until all safety precautions have been read and understood.

**P284** In case of inadequate ventilation wear respiratory protection.

## 2.3 Other Hazards

Other Classification Hazards

# 3. Composition

## 3.1 SUBSTANCE

Not applicable. Product is a mixture.

## 3.2 MIXTURE

Name	CAS	Einecs	Composition	Hazards
Propargyl bromide	106-96-7	203-447-1	20%	H225 Flam. Liq. 2, H301 Acute Tox. 3, H314 Skin Corr. 1B, H335 STOT SE 3
Toluene	108-88-3	N/A	80%	H412 Aquatic Chronic 3, H373 STOT RE 2, H225 Flam. Liq. 2, H315 Skin Irrit. 2, H361d Repr. 2, H336 STOT SE 3, H304 Asp. Tox. 1

# 4. First Aid Measures

## 4.1 Description of First Aid Measures

### Eye Contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing and seek medical attention.

### Ingestion

Where Diphoterine is not available, rinse mouth with copious amounts of water. Seek urgent medical advice.

### Inhalation

Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory problems seek immediate medical attention.

### Skin Contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediately. In case of skin reactions, consult a physician.

attention.

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## **4.2 Most Important Symptoms and Effects**

**Most Important Symptoms and Effects**

No known symptoms or effects.

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## **4.3 Indication of any urgent medical attention and special treatments needed**

**Immediate First Aid Measures**

No special immediate treatment required.

# **5. Fire Fighting Measures**

## **5.1 Extinguishing Media**

**Suitable Fire Extinguishing Media**

Use sand, extinguishing powder or alcohol resistant foam to extinguish fire.

**Unsuitable Fire Extinguishing Media**

No known unsuitable media.

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

**Special Hazards**

Thermal decomposition can lead to release of irritating gases and vapours.

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## **5.3 Recommendations for firefighting personnel**

**Advice for Fire Fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

# **6. Accidental Release Measures**

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

**Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak.

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## **6.2 Environmental Precautions**

**Environmental Precautions**

Prevent further leakage if safe to do so. Prevent product from entering drains. Do not let product enter waterways or sewer systems. Discharge into the environment must be avoided.

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## **6.3 Containment and cleaning methods and materials**

**Containment - Methods and Materials**

Absorb the spilled material with an inert absorbent (e.g. sand, silica gel, rag, vermiculite) before transferring into an airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations.

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## **6.4 References to other sections**

**Referenced SDS Sections**

For personal protection see section 8. For disposal see section 13.

## 7. Handling and Storage

### 7.1 Precautions for safe handling

<b>Safe Handling</b>	Wear appropriate personal protective equipment. Use only under a chemical fume hood. Keep away from heat/sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate exhaust ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clothing. For precautions see section 2.2.
<b>Protection Against Explosion and Fire</b>	Where possible, use anti static and spark proof equipment when handling.
<b>General Occupational Hygiene</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

### 7.2 Conditions for Safe Storage and Incompatibilities

<b>Managing Storage Risks</b>	Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place.
<b>Storage Controls</b>	No special requirements.
<b>Maintaining Integrity</b>	Keep container tightly closed in a cool area away from sunlight or heat sources.
<b>Other Advice</b>	No other specific advice available.

### 7.3 Specific End Use(s)

<b>Specific End Use(s)</b>	No specific end uses are advised. The products supplied are for re-search purposes only.
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## 8. Exposure Controls / Personal Protection

### 8.1 Control Parameters

<b>Control Parameters</b>	No data available.
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### 8.2 Exposure Controls

<b>Engineering Measures</b>	Use only under a chemical fume hood ensuring adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Face Protection</b>	Wear tightly fitting safety goggles which adhere to European standard EN 166. Ensure eye bath is to hand.
<b>Hand Protection</b>	Handle with impermeable gloves. Inspect gloves before use. Gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it. 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.
<b>Skin Protection</b>	Wear appropriate protective clothing ensuring all skin is covered. Wear safety shoes that meet at least S1 standards. The type of prot-

ective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory Protection

Product should be handled in a fume cupboard with adequate extraction. No respiratory equipment is needed under normal use conditions.

#### Hygiene Measures

Ensure hair or skin particles cannot enter the chemical container.

#### Environment Exposure Controls

Avoid discharge into the environment, see section 6.2.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

a) State	Liquid
b) Colour	Colourless to Yellow
c) Odour	No data available.
d) Melting Point / Freezing Point	-95°C
e) Initial Boiling point or Boiling range	88.0°C
f) Flammability	No data available.
g) Upper / Lower Flammability or Explosion Limits	No data available.
h) Flash Point	18°C Closed Cup
i) Auto Ignition Temperature	No data available.
j) Decomposition Temperature	No data available.
k) pH	No data available.
l) Viscosity	No data available.
m) Solubility	No data available.
n) Partition Coefficient	No data available.
o) Vapour Pressure	No data available.
p) Relative Density	1.335g/cm <sup>3</sup> at 25°C
q) Vapour Density	No data available.
r) Appearance	No data available.

### 9.2 Other Safety Information

Other Information	No data available.
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## 10. Stability and Reactivity

### 10.1 Reactivity

Reactivity	No known reactivity, based on information available.
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### 10.2 Stability

Stability	Stable under recommended storage conditions.
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### **10.3 Possibility of Hazardous Reactions**

<b>Possibility of Hazardous Reactions</b>	None under normal storage conditions.
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### **10.4 Conditions to Avoid**

<b>Conditions to Avoid</b>	Heat, sparks, open flames, sources of ignition. Exposure to moisture.
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### **10.5 Incompatible Materials**

<b>Incompatible Materials</b>	Strong oxidizing agents.
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### **10.6 Hazardous Decomposition Products**

<b>Hazardous Decomposition Products</b>	No data available.
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## **11. Toxicology Information**

### **11.1 Information on Hazard Classes, as defined in Regulation (EC) No. 1271/2008**

<b>Acute Toxicity</b>	Oral LD50, Rat, 66.25mg/kg
<b>Skin Corrosion / Irritation</b>	Strong corrosive effect on skin and mucous membranes.
<b>Serious Eye Damage / Irritation</b>	Causes serious eye damage.
<b>Respiratory or Skin Sensitisation</b>	May be fatal if swallowed and enters airways.
<b>Germ Cell Mutagenicity</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Carcinogenicity</b>	No Toxicology data available for this product.
<b>Reproductive Toxicity</b>	Suspected of damaging fertility. Suspected of damaging the unborn child.
<b>STOT-single Exposure</b>	May cause damage to organs through prolonged or repeated exposure., May cause drowsiness or dizziness.
<b>STOT-repeated Exposure</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Aspiration Hazard</b>	No Toxicology data available for this product.

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### **11.2 Information about Other Hazards**

<b>Endocrine Disrupting Properties</b>	Avoid release to the environment.
<b>Addition Toxicology Information</b>	No Toxicology data available for this product.

## **12. Ecological Information**

### **12.1 Toxicity**

<b>Toxicity</b>	No Ecological data available for this product.
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## 12.2 Persistence and Degradability

Persistence and Degradability	No Ecological data available for this product.
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## 12.3 Bio-Accumulative Potential

Bio-Accumulative Potential	No Ecological data available for this product.
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## 12.4 Mobility in Soil

Mobility in Soil	No Ecological data available for this product.
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## 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	No Ecological data available for this product.
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## 12.6 Endocrine Disrupting Properties

Endocrine Disrupting Properties	Avoid release to the environment.
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## 12.7 Other Adverse Effects

Other Adverse Effects	Avoid release to the environment.
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# 13. Disposal Considerations

## 13.1 Waste Treatment Methods

Disposal Operations	Ensure product is disposed of by licensed waste carriers.
Disposal of Packaging	Ensure INNER PACKAGING is disposed of by licensed waste carriers. Some OUTER PACKAGING MAY be recyclable if not contaminated.

# 14. Transport Information

## 14.1 UN Number

IATA UN Number	2345	ADR UN Number	2345	IMDG UN Number	2345
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## 14.2 Official UN Shipping Name

IATA Proper Shipping Name	3-Bromopropyne (Propargyl bromide (80% in toluene) (stabilized with 0.3% MgO))	ADR Proper Shipping Name	3-Bromopropyne (Propargyl bromide (80% in toluene) (stabilized with 0.3% MgO))	IMDG Proper Shipping Name	3-Bromopropyne (Propargyl bromide (80% in toluene) (stabilized with 0.3% MgO))
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## 14.3 Hazard classes for transport purposes

<b>IATA Hazard Class</b>	3.0	<b>ADR Hazard Class</b>	3.0	<b>IMDG Hazard Class</b>	No data available.
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**14.4 Packing Group**

<b>IATA Packing Group</b>	II	<b>ADR Packing Group</b>	II	<b>IMDG Packing Group</b>	II
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**14.5 Enviromental Hazards**

<b>IATA Environmental Hazards</b>	No data available.	<b>ADR Environmental Hazards</b>	No data available.	<b>IMDG Environmental Hazards</b>	No data available.
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**14.6 Special Precautions**

No Information Available

**14.7 Bulk Maritime Transport in accordance with IMO Instructions**

<b>IATA Sub Class</b>	- None -	<b>ADR Sub Class</b>	- None -	<b>IMDG Sub Class</b>	- None -
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**15. Regulatory Information**

**15.1 Health, safety and environmental regulations/legislation specific to the substance or mixture**

<b>Regulatory Information</b>	As far as Fluorochem is aware, there are no further regulations controlling this product.
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**15.2 Chemical Safety Assessment**

**Chemical Safety Assessment** There is no chemical safety assessment available for this product.

**16. Other Information**

**Information Not Covered in Other Sections**

<b>Information Not Covered in Other Sections</b>	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road (European agreement on the international transport of dangerous goods by road). RID: International Regulations concerning the Transport of Dangerous Goods by Rail (Regulations regarding the international transport of dangerous goods by rail). IMDG: International Maritime Code for Dangerous Goods. IATA: International Air Transport Association. IATA-DGR: Dangerous Goods Regulations fra International Air Transport Association. ICAO: International Civil Aviation Organisation. ICAO-TI: Technical instructions from ICAO. GHS: Globally Harmonized System for Classification and Labelling of Chemicals. CAS: Chemical Abstracts Service
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**Other Information**

<b>Revision</b>	1
<b>Date Modified</b>	19/12/2024 18:46:00
<b>Disclaimer</b>	The product listed is for research and development purposes only and

not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user. This SDS adheres to Regulation (EC) No 1907/2006, and as of 13th April 2023, also conforms to EU Regulation 2020/878.