

Safety Data Sheet

fluorochem

1. Identification of Substance / Mixture

Product Identifier

Product Name (Isocyanatomethyl)cyclopropane

Other Names

Product Code 214423

CAS 25694-89-7

MDL MFCD00037147

EINECS N/A

REACH Registration Number

Relevant Uses Research and Development

Uses Advised Against No uses advised against.

Supplier Details

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2. Hazards Identification

Classification Flam. Liq. 2
Acute Tox. 4
Acute Tox. 3
Skin Corr. 1B
Acute Tox. 1

Signal Word Danger

Pictograms



GHS02



GHS05



GHS06



GHS07

Hazards

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H330 Fatal if inhaled.

Precautions

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear face protection.

P284 Wear respiratory protection.

P301+P312 IF SWALLOWED: Call a doctor if you feel unwell.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of water.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

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.

P310 Immediately call a POISON CENTER/doctor.

P312 Call a POISON CENTER/doctor if you feel unwell.

P320 Specific treatment is urgent.

P321 Specific treatment.

P330 Rinse mouth.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use dry sand to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Other Classification Hazards

Fatal By Inhalation

3. Composition of Ingredients

SUBSTANCE

Name	CAS	Einecs	Composition	Hazards
(Isocyanatomethyl)cyclopropane	25694-89-7	N/A	<= 100%	H225 Flam. Liq. 2 H302 Acute Tox. 4 H311 Acute Tox. 3 H314 Skin Corr. 1B H330 Acute Tox. 1

4. 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 immediate medical attention.

Ingestion

If swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting.

Inhalation

Remove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or physician. If breathing is irregular or stopped, administer artificial respiration.

Skin Contact

After contact with skin or hair, wash immediately with plenty of water and soap. Remove contaminated clothing immediately. Immediately seek medical attention.

General Advice

No additional advice.

Most Important Symptoms and Effects

Severe burns may occur.

Immediate First Aid Measures

No additional first aid measures required.

5. Fire Fighting Measures

Suitable Fire Extinguishing Media

Carbon dioxide, alcohol resistant foam or dry chemical powder.

Unsuitable Fire Extinguishing Media

No known unsuitable media.

Special Hazards

In combustion toxic fumes may form.

Advice for Fire Fighters

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

6. Accidental Release Measures

Personal Precautions

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

Environmental Precautions

Do not let product enter drains or waterways. Avoid discharge into the environment.

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.

Referenced SDS Sections

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

7. Handling and Storage

Personal Precautions

Safe Handling

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.

Protection Against Explosion and Fire

Where possible, use anti static and spark proof equipment when handling.

General Occupational Hygiene

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.

Conditions for Safe Storage and Incompatibilities

Managing Storage Risks

Keep away from heat/sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge.

Storage Controls

No special requirements

Maintaining Integrity

Keep container tightly closed in a cool area away from sunlight or heat sources.

Other Advice

No other specific advice available.

Specific End Use(s)

No specific end uses are advised. The products supplied are for research purposes only.

8. Exposure Controls / Personal Protection

Control Parameters

Country	Info	Long Term (ppm)	Long Term (mgm3)	Short Term (ppm)	Short Term (mgm3)	Ceiling (ppm)	Ceiling (mgm3)	Other Unit	Remarks
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Engineering Measures	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.
Face Protection	Wear tightly fitting safety goggles which adhere to European standard EN 166. Ensure eye bath is to hand.
Hand Protection	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.
Skin Protection	Wear appropriate protective clothing ensuring all skin is covered. Wear safety shoes that meet at least S1 standards. The type of protective 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 Protection	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

State	Liquid
Appearance	liquid
Odour	No data available.
Odour Threshold	No data available.
pH	No data available.
Melting Point / Freezing Point	No data available.
Initial Boiling Point	84Â°C
Boiling Range	84Â°C
Flash Point	No data available.
Evaporation Rate	No data available.
Flammability	No data available.
Upper / Lower Flammability or Explosion Limits	No data available.
Vapour Pressure	No data available.
Vapour Density	No data available.
Relative Density	No data available.
Solubility	No data available.
Partition Coefficient	No data available.
Auto Ignition Temperature	No data available.
Decomposition Temperature	No data available.
Viscosity	No data available.
Explosive Properties	No data available.
Oxidising Properties	No data available.
Other information	No additional information available

10. Stability and Reactivity

Reactivity	No known reactivity, based on information available.
Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Fatal if inhaled.
Conditions To Avoid	Heat, sparks, open flames, sources of ignition. Exposure to moisture.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	No Data Available.

11. Toxicology Information

Acute Toxicity	No Toxicology data available for this product.
Skin Corrosion / Irritation	Strong corrosive effect on skin and mucous membranes.
Serious Eye Damage / Irritation	Strong corrosive effect.
Respiratory or Skin Sensitisation	Fatal if inhaled.
Germ Cell Mutagenicity	No Toxicology data available for this product.
Carcinogenicity	No Toxicology data available for this product.

Reproductive Toxicity	No Toxicology data available for this product.
STOT-single Exposure	Fatal if inhaled.
STOT-repeated Exposure	No Toxicology data available for this product.
Aspiration Hazard	No Toxicology data available for this product.
Additional Toxicology Information	No Toxicology data available for this product.

12. Ecological Information

Toxicity	No Ecological data available for this product.
Persistence and Degradability	No Ecological data available for this product.
Bio-Accumulative Potential	No Ecological data available for this product.
Mobility in Soil	No Ecological data available for this product.
Results of PBT and vPvB assessment	No Ecological data available for this product.
Endocrine Disrupting Properties	No Ecological data available for this product.
Other Adverse Effects	No Ecological data available for this product.

13. Disposal Considerations

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

IATA UN Number	3080	ADR UN Number	3080	IMDG UN Number	3080
IATA Proper Shipping Name	ISOCYANATES, TOXIC, FLAMMABLE, N.O.S. ((Isocyanatomethyl)cyclopropane)	ADR Proper Shipping Name	ISOCYANATES, TOXIC, FLAMMABLE, N.O.S. ((Isocyanatomethyl)cyclopropane)	IMDG Proper Shipping Name	ISOCYANATES, TOXIC, FLAMMABLE, N.O.S. ((Isocyanatomethyl)cyclopropane)
IATA Packing Group	II	ADR Packing Group	II	IMDG Packing Group	II
IATA Hazard Class	6.1	ADR Hazard Class	6.1	IMDG Hazard Class	6.1
IATA Sub Class	3	ADR Sub Class	3	IMDG Sub Class	3
				IMDG Special Provisions	
				IMDG IBS Instructions	
				IMDG IBC Instructions	IBC02
				IMDG Tank Instructions	T11
				IMDG Tank Provisions	TP2, TP13, TP27

15. Regulatory Information

Regulatory Information	As far as Fluorochem is aware, there are no further regulations controlling this product.
Chemical Safety Assessment	No Chemical Safety Assessment available for this product.

16. Other Information

Information Not Covered in Other Sections	<p>ADR: Accord Européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by road)</p> <p>RID: Règlement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)</p> <p>IMDG: International Maritime Code for Dangerous Goods</p> <p>IATA: International Air Transport Association</p> <p>IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association</p> <p>ICAO: International Civil Aviation Organization</p> <p>ICAO-TI: Technical Instructions by the ICAO</p> <p>GHS: Globally Harmonized System of Classification and Labelling of Chemicals</p> <p>CAS: Chemical Abstracts Service</p>
Revision	1.283

Date Modified

03/11/2022

Disclaimer

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.