SAFETY DATA SHEET

fluorochem.

1. Identification of Substance / Mixture

Product Identifier	
1.1.2 Product Name	Cyclopentene
1.1.2 Other Names	
1.1.1 Product Code	F520876
1.1.3 CAS	142-29-0
1.1.4 MDL	MFCD00001394
1.1.5 EINECS	205-532-9
1.1.6 REACH Registration Number	er
1.2.1 Relevant Uses	For research and development purposes.
1.2.2 Uses Advised Against	No uses advised against.
1.3 Supplier Details	

1.3 Supplier Details

1.3.1 Company	Fluorochem Ltd
1.3.2 Address	Unit 14, Graphite Way Hadfield Glossop Derbys. SK13 1QH United Kingdom
1.3.3 Telephone	01457 860111
1.3.4 Email	sds@fluorochem.co.uk
1.4.1 Emergency Telephone	+44 20 3807 3798

2. Hazards Identification

2.1.1 Classification

Acute Tox. 4 Asp. Tox. 1 Flam. Liq. 2 Skin Irrit. 2

Danger



2.2.1 Signal Word

GHS02 GHS07 GHS08

2.2.3 Hazards

H225 Highly flammable liquid and vapour. H302+H312 Harmful if swallowed or in contact with skin. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation.

2.2.4 Precautions P101 If medical advice is needed, have product container or label at hand. P201 Obtain special instructions before use P202 Do not handle until all safety precautions have been read and understood. 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. P241.1 Use explosion-proof equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P260.1 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 P280.4 Wear protective gloves/protective clothing and eye/face protection. P301+P310.1 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302+P352.2 IF ON SKIN: Wash with plenty of water and soap. P303+P361+P353.1 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. P308+P313 IF exposed or concerned: Get medical advice/attention. P310.1 Immediately call a POISON CENTER/doctor. P321 Specific treatment. P342+P311.1 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P361+P364 Take off immediately all contaminated clothing and wash it before reuse. P370+P378.1 In case of fire: Use dry sand to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501.3 Dispose of contents/container to hazardous waste disposal.

2.2.5 Other Classification Hazards

SUBSTANCE SUBSTANCE 31.1 Name 31.2 CAS Einecs 31.3 Composition Hazards Cyclopentene 142-29-0 205-532-9 H225 Flam. Liq. 2 H302+H312 Acute Tox. 4 H304 Asp. Tox. 1

4. First Aid Measures 4.1.1 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 4.1.2 Ingestion Where Diphoterine is not available, rinse mouth with copious amounts of water. Seek urgent medical advice. 4.1.3 Inhalation Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory problems seek immediate medical attention. 4.1.4 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. 4.1.5 General Advice If exposed or concerned, seek immediate medical attention 4.2.1 Most Important Symptoms and Effects No known symptoms or effects 4.3.1 Immediate First Aid Measures No special immediate treatment required

5. Fire Fighting Measures

5.1.1 Suitable Fire Extinguishing Media	Use sand, extinguishing powder or alcohol resistant foam to extinguish fire.
5.1.2 Unsuitable Fire Extinguishing Media	No known unsuitable media.
5.2.1 Special Hazards	Thermal decomposition can lead to release of irritating gases and vapours.
5.3.1 Advice for Fire Fighters	As in any fire, wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

6.1.1 Personal Precautions	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak.
6.2.1 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.

H315 Skin Irrit. 2

6.3.1 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. 6.4.1 Referenced SDS Sections For personal protection see section 8. For disposal see section 13. 7. Handling and Storage For personal protection see section 8. For disposal see section 13.

Personal Precautions

exh	rks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate aust ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clothing. precautions see section 2.2.
7.1.2 Protection Against Explosion and Fire Who	ere possible, use anti static and spark proof equipment when handling.
	ndle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do not eat, k or smoke when using this product. Remove and wash contaminated clothing before re-use.

Conditions for Safe Storage and Incompatabilities

7.2.1 Managing Storage Risks	Keep away from heat/sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge.,Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place.
7.2.2 Storage Controls	Keep container tightly closed in a cool area away from sunlight or heat sources.
7.2.3 Maintaining Integrity	Keep container tightly closed in a cool area away from sunlight or heat sources.
7.2.4 Other Advice	No other specific advice available.
7.3.1 Specific End Use(s)	No specific end uses are advised. The products supplied are for research purposes only.

8. Exposure Controls / Personal Protection

8.1.1 Control Parameters	
8.2.1 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.
8.2.2 Face Protection	Wear tightly fitting safety goggles which adhere to European standard EN 166. Ensure eye bath is to hand.
8.2.3 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.
8.2.4 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.
8.2.5 Respiratory Protection	Product should be handled in a fume cupboard with adequate extraction. No respiratory equipment is needed under normal use conditions.
8.2.6 Hygiene Protection	Ensure hair or skin particles cannot enter the chemical container.
8.2.7 Environment Exposure Controls	Avoid discharge into the environment, see section 6.2.

9. Physical and Chemical Properties

9.1.1 State	Liquid
9.1.2 Appearance	No data available.
9.1.3 Odour	No data available.
9.1.4 Odour Threshold	No data available.
9.1.5 pH	No data available.
9.1.6 Melting Point / Freezing Point	-135°C
9.1.7 Initial Boiling Point	46°C
9.1.8 Boiling Range	No data available.
9.1.9 Flash Point	-29°C Method: Closed Cup
9.1.10 Evaporation Rate	No data available.
9.1.11 Flammability	No data available.
9.1.12 Upper / Lower Flammability or Explosion Limits	No data available.
9.1.13 Vapour Pressure	506.62 hPa at 25°C
9.1.14 Vapour Density	No data available.
9.1.15 Relative Density	0.77 g/cm3 at 20°C

/L at 25°C in Water
20°C
available.
nPa s at 20°C
available.
available.
itional information available.

10. Stability and Reactivity

10.1.1 Reactivity	No known Reactivity, based on information available.
10.2.1 Stability	Stable under recommended storage conditions.
10.3.1 Possibility of Hazardous Reactions	None under normal storage conditions.
10.4.1 Conditions To Avoid	Heat, sparks, open flames, sources of ignition. Exposure to moisture.
10.5.1 Incompatible Materials	Strong oxidising agents.
10.6.1 Hazardous Decomposition Products	No Data Available.

11. Toxicology Information

11.1.1 Acute Toxicity	Oral LD50, Rat, 1656mg/kg Inhalation LC50, Rat, >22.9mg/l/4 h Dermal LD50, Rabbit, 1231mg/kg/24 h
11.1.2 Skin Corrosion / Irritation	No Toxicology data available for this product.
11.1.3 Serious Eye Damage / Irritation	No Toxicology data available for this product.
11.1.4 Respiratory or Skin Sensitisation	May be fatal if swallowed and enters airways.
11.1.5 Germ Cell Mutagenicity	No Toxicology data available for this product.
11.1.6 Carcinogenicity	No Toxicology data available for this product.
11.1.7 Reproductive Toxicity	No Toxicology data available for this product.
11.1.8 STOT-single Exposure	No Toxicology data available for this product.
11.1.9 STOT-repeated Exposure	No Toxicology data available for this product.
11.1.10 Aspiration Hazard	No Toxicology data available for this product.
11.2.1 Additional Toxicology Information	No Toxicology data available for this product.

12. Ecological Information

12.1.1 Toxicity	Toxicity to aquatic invertebrates: Daphnia magna EC50 - 0.3mg/l/48 h Toxicity to aquatic algae and cyanobacteria: Raphidocelis subcapitata EC50 - 0.9mg/l/72 h
12.2.1 Persistence and Degradability	No Ecological data available for this product.
12.3.1 Bio-Accumulative Potential	No Ecological data available for this product.
12.4.1 Mobility in Soil	Log Pow: 2.47
12.5.1 Results of PBT and vPvB assessment	No Ecological data available for this product.
12.7.1 Endocrine Disrupting Properties	Avoid release to the environment.
12.6.1 Other Adverse Effects	No Ecological data available for this product.

13. Disposal Considerations

13.1.1 Disposal Operations 13.1.2 Disposal of Packaging Ensure product is disposed of by licensed waste carriers.

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	2246
14.1.2 IATA Proper Shipping Name	CYCLOPENTENE (Cyclopentene)
IATA Packing Group	II
14.1.4 IATA Hazard Class	3

ADR UN Number ADR Proper Shipping Name ADR Packing Group ADR Hazard Class 2246 CYCLOPENTENE (Cyclopentene) II 3 IMDG UN Number IMDG Proper Shipping Name IMDG Packing Group IMDG Hazard Class 2246 CYCLOPENTENE (Cyclopentene)

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14.1.5 IATA Sub Class -	None -	ADR Sub Class	- None -	IMDG Sub Class	- None -	
15. Regulatory Info	rmation					
15.1.1 Regulatory Information 15.2.1 Chemical Safety Assessment 16. Other Information	No Chemic	uorochem is aware, there are no fu al Safety Assessment is available f	0	trolling this product.		
16.1.2 Information Not Cove Sections		the International Carriage of RID:Reglement International concerning the International IMDG: International Maritime IATA: International Air Transp IATA-DGR: Dangerous Good Aviation Organization ICAO-TI: Technical Instruction	Dangerous Goods by concernant le transport transport of Dangerous ort Association s Regulations by the ns by the ICAO system of Classification	ort des merchandises dangereuses us Goods by Rail)	par chemin de fer (Regulations	
Revision		1				
Date Modified		Apr 25, 2024 12:06:00 PM				
16.1.1 Disclaimer		cases, the toxicological, ecol should be treated with respe The responsible party shall u them, and should make an in	product listed is for research and development purposes only and not for human or animal use. As such, in most es, the toxicological, ecological and physicochemical properties have not been fully determined and the product uld be treated with respect and always handled under suitable conditions by appropriately qualified personnel. responsible party shall use this datasheet only in conjunction with other sources of information gathered by n, and should make an independent judgement of suitability, to ensure proper use and protect the health and			

Regulation 2020/878.

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