

# Safety Data Sheet

fluorochem.

## 1. Identification of the substance/mixture

### 1.1 Product identification

|                           |   |
|---------------------------|---|
| Product name              | CYCLOPENTEN-1-YLBENZENE                     |
| Other names               |   |
| Product code              | F513143                                     |
| CAS                       | 825-54-7                                    |
| MDL                       | MFCD00019303                                |
| EINECS                    | 822-708-6                                   |
| REACH Registration number | N/A   |
| Nanoform                  | The product does not contain nanoparticles. |

### 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 Limited  |
| Address   | Unit 14, Graphite Way<br>Hadfield<br>Glossop Derbys. SK13 1QH<br>United Kingdom |
| Telephone | +44 1457 860111   |
| Email     | sds@fluorochem.co.uk  |

### 1.4 Emergency Telephone

|                     |                                       |
|---------------------|---------------------------------------|
| Emergency Telephone | +44 20 3807 3798 (Poison Information) |
|---------------------|---------------------------------------|

## 2. Hazard Identification

### 2.1 Classification of the substance or mixture

|                |  |
|----------------|--|
| Classification | H302 Acute Tox. 4<br>H319 Eye Irrit. 2<br>H372 STOT RE 1<br>H410 Aquatic Chronic 1 |
|----------------|--|

### 2.2 Label Elements

**Signal Word**

**Warning**

**Pictograms**



**GHS07**



**GHS08**



**GHS09**

**Hazards**

**H302** Harmful if swallowed.

**H319** Causes serious eye irritation.

**H372** Causes damage to organs through prolonged or repeated exposure.

**H410** Very toxic to aquatic life with long lasting effects.

**Precautions**

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

**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.

**P273** Avoid release to the environment.

**P280** Wear protective gloves/protective clothing and eye/face protection.

**P301+P310** IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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

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

**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.

**P308+P313** IF exposed or concerned: Get medical advice/attention.

**P321** Specific treatment (see Section 4 on this SDS).

**P362+P364** Take off contaminated clothing and wash it before reuse.

**P391** Collect spillage.

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

**P405** Store locked up.

**P501** Dispose of contents/container to hazardous waste disposal.

**Supplemental Hazard Information**

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**2.3 Other Hazards**

**Other Classification Hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic

(PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### Ecological Information

This substance/mixture contains no components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

#### Toxicological Information

This substance/mixture contains no components considered to have endocrine disrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### 3. Composition

#### 3.1 SUBSTANCE

| Name                    | CAS      | Einecs    | Composition | Hazards |
|-------------------------|----------|-----------|-------------|---------|
| CYCLOPENTEN-1-YLBENZENE | 825-54-7 | 822-708-6 |             |         |

#### 3.2 MIXTURE

Not applicable. Product is a substance.

### 4. First Aid Measures

#### 4.1 Description of First Aid Measures

|                |   |
|----------------|---|
| Eye Contact    | Where Diphoterine is not available, rinse eyes with copious amounts of water for at least 20 minutes.                                 |
| 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   | Where Diphoterine is not available, rinse skin with copious amounts of water for at least 20 minutes.                                 |
| General Advice | No additional advice.   |

#### 4.2 Most Important Symptoms and Effects

|                                     |                               |
|-------------------------------------|-------------------------------|
| Most Important Symptoms and Effects | No known symptoms or effects. |
|-------------------------------------|-------------------------------|

#### 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 | Carbon dioxide, alcohol resistant foam or dry chemical |
|-----------------------------------|--|

powder., Use water 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***

**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.

## 7.2 Conditions for Safe Storage and Incompatibilities

|                        |  |
|------------------------|--|
| Managing Storage Risks | Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place. |
| 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.  |

## 7.3 Specific End Use(s)

Specific End Use(s)

# 8. Exposure Controls / Personal Protection

## 8.1 Control Parameters

|                    |                    |
|--------------------|--------------------|
| Control Parameters | No data available. |
|--------------------|--------------------|

## 8.2 Exposure Controls

|                               |  |
|-------------------------------|--|
| 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 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   | No data available.            |
| c) Odour  | No data available.            |
| d) Melting Point / Freezing Point                 | 22°C                          |
| e) Initial Boiling point or Boiling range         | 92.0 - 93.0°C at 17.33hPa     |
| f) Flammability                                   | No data available.            |
| g) Upper / Lower Flammability or Explosion Limits | No data available.            |
| h) Flash Point                                    | 84°C                          |
| 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                               | 0.97g/cm <sup>3</sup> at 19°C |
| q) Vapour Density                                 | No data available.            |
| r) Appearance                                     | No data available.            |

## **9.2 Other Safety Information**

|                   |                    |
|-------------------|--------------------|
| Other Information | No data available. |
|-------------------|--------------------|

# **10. Stability and Reactivity**

## **10.1 Reactivity**

|            |                    |
|------------|--------------------|
| Reactivity | No data available. |
|------------|--------------------|

## **10.2 Stability**

|           |  |
|-----------|--|
| Stability | Stable under recommended storage conditions. |
|-----------|--|

## **10.3 Possibility of Hazardous Reactions**

|                                    |                                       |
|------------------------------------|---------------------------------------|
| Possibility of Hazardous Reactions | None under normal storage conditions. |
|------------------------------------|---------------------------------------|

## **10.4 Conditions to Avoid**

|                     |   |
|---------------------|---|
| Conditions to Avoid | Heat, sparks, open flames, sources of ignition. Exposure to moisture. |
|---------------------|---|

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## 10.5 Incompatible Materials

Incompatible Materials      Strong oxidizing agents.

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## 10.6 Hazardous Decomposition Products

Hazardous Decomposition Products      No data available.

# 11. Toxicology Information

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

|                                   |  |
|-----------------------------------|--|
| Acute Toxicity                    | No toxicological data available for this product.              |
| Skin Corrosion / Irritation       | No Toxicology data available for this product.                 |
| Serious Eye Damage / Irritation   | No Toxicology data available for this product.                 |
| Respiratory or Skin Sensitisation | No Toxicology data available for this product.                 |
| Germ Cell Mutagenicity            | Causes damage to organs through prolonged or repeated exposure |
| Carcinogenicity                   | No Toxicology data available for this product.                 |
| Reproductive Toxicity             | No Toxicology data available for this product.                 |
| STOT-single Exposure              | Causes damage to organs through prolonged or repeated exposure |
| STOT-repeated Exposure            | Causes damage to organs through prolonged or repeated exposure |
| Aspiration Hazard                 |  |

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### 11.2 Information about Other Hazards

Endocrine Disrupting Properties      Avoid release to the environment.

Addition Toxicology Information

# 12. Ecological Information

### 12.1 Toxicity

Toxicity      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.

**12.5 Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment**      No Ecological data available for this product.

**12.6 Endocrine Disrupting Properties**

**Endocrine Disrupting Properties**      Avoid release to the environment.

**12.7 Other Adverse Effects**

Other Adverse Effects

**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**

|                       |      |                      |      |                       |      |
|-----------------------|------|----------------------|------|-----------------------|------|
| <b>IATA UN Number</b> | 3082 | <b>ADR UN Number</b> | 3082 | <b>IMDG UN Number</b> | 3082 |
|-----------------------|------|----------------------|------|-----------------------|------|

**14.2 Official UN Shipping Name**

|                                  |   |                                 |   |                                  |   |
|----------------------------------|---|---------------------------------|---|----------------------------------|---|
| <b>IATA Proper Shipping Name</b> | ENVIRONMEN<br>TALLY<br>HAZARDOUS<br>SUBSTANCE,<br>LIQUID, N.O.S.<br>(CYCLOPENTE<br>N-1-<br>YLBENZENE) | <b>ADR Proper Shipping Name</b> | ENVIRONMEN<br>TALLY<br>HAZARDOUS<br>SUBSTANCE,<br>LIQUID, N.O.S.<br>(CYCLOPENTE<br>N-1-<br>YLBENZENE) | <b>IMDG Proper Shipping Name</b> | ENVIRONMEN<br>TALLY<br>HAZARDOUS<br>SUBSTANCE,<br>LIQUID, N.O.S.<br>(CYCLOPENTE<br>N-1-<br>YLBENZENE) |
|----------------------------------|---|---------------------------------|---|----------------------------------|---|

**14.3 Hazard classes for transport purposes**

|                          |     |                         |     |                          |                    |
|--------------------------|-----|-------------------------|-----|--------------------------|--------------------|
| <b>IATA Hazard Class</b> | 9.0 | <b>ADR Hazard Class</b> | 9.0 | <b>IMDG Hazard Class</b> | No data available. |
|--------------------------|-----|-------------------------|-----|--------------------------|--------------------|

**14.4 Packing Group**

|                           |     |                          |     |                           |     |
|---------------------------|-----|--------------------------|-----|---------------------------|-----|
| <b>IATA Packing Group</b> | III | <b>ADR Packing Group</b> | III | <b>IMDG Packing Group</b> | III |
|---------------------------|-----|--------------------------|-----|---------------------------|-----|

**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. |
|-----------------------------------|--------------------|----------------------------------|--------------------|-----------------------------------|--------------------|



## 14.6 Special Precautions

No Information Available

## 14.7 Bulk Maritime Transport in accordance with IMO Instructions

|                |          |               |          |                |          |
|----------------|----------|---------------|----------|----------------|----------|
| IATA Sub Class | - None - | ADR Sub Class | - None - | IMDG Sub Class | - None - |
|----------------|----------|---------------|----------|----------------|----------|

## 15. Regulatory Information

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

|                        |   |
|------------------------|---|
| Regulatory Information | As far as Fluorochem is aware, there are no further regulations controlling this product. |
|------------------------|---|

### 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

|   |   |
|---|---|
| Information Not Covered in Other Sections | 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 |
|---|---|

### Other Information

|               |   |
|---------------|---|
| Revision      | 1   |
| Date Modified | 25/09/2025 11:18:59   |
| 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. |

In compliance with the regulation (EC) no. 1272/2008

This SDS adheres to Regulation (EC) No 1907/2006, and as of 13th April 2023, also conforms to EU Regulation 2020/878.