

# Safety Data Sheet

fluorochem.

## 1. Identification of the substance/mixture

### 1.1 Product identification

Product name	2,6-Dimethyl cyclohexanone
Other names	
Product code	F493733
CAS	2816-57-1
MDL	MFCD00001637
EINECS	N/A
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	H335 STOT SE 3 H226 Flam. Liq. 3 H315 Skin Irrit. 2 H319 Eye Irrit. 2
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### 2.2 Label Elements

**Signal Word**

**Warning**

**Pictograms**



**GHS02**



**GHS07**

**Hazards**

**H335** May cause respiratory irritation.

**H226** Flammable liquid and vapour.

**H315** Causes skin irritation.

**H319** Causes serious eye irritation.

**Precautions**

**P261** Avoid breathing dust/fume/gas/mist/vapours/spray.

**P264** Wash hands thoroughly after handling.

**P242** Use non-sparking tools.

**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.

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

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

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

**P241** Use explosion-proof equipment.

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

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

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

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

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

**P243** Take action to prevent static discharges.

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

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

**P310** Immediately call a POISON CENTER/doctor.

**P233** Keep container tightly closed.

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

**P405** Store locked up.

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

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

**P240** Ground and bond container and receiving equipment.

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

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## 2.3 Other Hazards

## Other Classification Hazards

### 3. Composition

#### 3.1 SUBSTANCE

Name	CAS	Einecs	Composition	Hazards
2,6-Dimethyl cyclohexanone	2816-57-1	N/A		

#### 3.2 MIXTURE

Not applicable. Product is a substance.

### 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.
General Advice	No additional advice.

#### 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.
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### 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.

#### 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.

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## 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.

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## 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.

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**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.

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### **7.3 Specific End Use(s)**

<b>Specific End Use(s)</b>	No specific end uses are advised. The products supplied are for research 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 protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Respiratory Protection</b>	Product should be handled in a fume cupboard with adequate extraction. No respiratory equipment is needed under normal use conditions.
<b>Hygiene Measures</b>	Ensure hair or skin particles cannot enter the chemical container.
<b>Environment Exposure Controls</b>	Avoid discharge into the environment, see section 6.2.

## **9. Physical and Chemical Properties**

### **9.1 Information on basic physical and chemical properties**

<b>a) State</b>	Liquid
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b) Colour	No data available.
c) Odour	No data available.
d) Melting Point / Freezing Point	No data available.
e) Initial Boiling point or Boiling range	No data available.
f) Flammability	No data available.
g) Upper / Lower Flammability or Explosion Limits	No data available.
h) Flash Point	51°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	0.91g/cm <sup>3</sup>
q) Vapour Density	No data available.
r) Appearance	Liquid

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## 9.2 Other Safety Information

Other Information No data available.

# 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

Possibility of Hazardous Reactions None under normal storage conditions.

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## 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**

<b>Acute Toxicity</b>	No toxicological data available for this product.
<b>Skin Corrosion / Irritation</b>	No Toxicology data available for this product.
<b>Serious Eye Damage / Irritation</b>	No Toxicology data available for this product.
<b>Respiratory or Skin Sensitisation</b>	No Toxicology data available for this product.
<b>Germ Cell Mutagenicity</b>	No Toxicology data available for this product.
<b>Carcinogenicity</b>	No Toxicology data available for this product.
<b>Reproductive Toxicity</b>	No Toxicology data available for this product.
<b>STOT-single Exposure</b>	No Toxicology data available for this product.
<b>STOT-repeated Exposure</b>	No Toxicology data available for this product.
<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**

<b>Persistence and Degradability</b>	No Ecological data available for this product.
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### **12.3 Bio-Accumulative Potential**

<b>Bio-Accumulative Potential</b>	No Ecological data available for this product.
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### **12.4 Mobility in Soil**

<b>Mobility in Soil</b>	No Ecological data available for this product.
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### **12.5 Results of PBT and vPvB assessment**

<b>Results of PBT and vPvB assessment</b>	No Ecological data available for this product.
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### **12.6 Endocrine Disrupting Properties**

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

### 12.7 Other Adverse Effects

**Other Adverse Effects**      Avoid release to the environment.

## 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>	1224	<b>ADR UN Number</b>	1224	<b>IMDG UN Number</b>	1224
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### 14.2 Official UN Shipping Name

<b>IATA Proper Shipping Name</b>	KETONES, LIQUID, N.O.S. (2,6-Dimethyl cyclohexanone)	<b>ADR Proper Shipping Name</b>	KETONES, LIQUID, N.O.S. (2,6-Dimethyl cyclohexanone)	<b>IMDG Proper Shipping Name</b>	KETONES, LIQUID, N.O.S. (2,6-Dimethyl cyclohexanone)
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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>	III	<b>ADR Packing Group</b>	III	<b>IMDG Packing Group</b>	III
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### 14.5 Environmental 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

**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.

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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

**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

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### Other Information

**Revision** 1

**Date Modified** 19/12/2024 18:46:00

**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, and as of 13th April 2023, also conforms to EU Regulation 2020/878.