According to Regulation (EC) No. 1272/2008 Language: English

Safety Data Sheet

Revision: 3.01 Modified: 2019-10-14

fluorochem

1: Identification of substance / mixture

1. Product Identifier Substance

Product Name Ethylcyclohexane

Product Code 240973 CAS Number 1678-91-7

Other Names

IUPAC

MFCD Number MFCD00001523 EC/EINECS 216-835-0

REACH Number Index-No

2. Relevant identified uses of the substance or mixture and uses advised against

Research and Development

3. Details of the supplier of the safety data sheet

Fluorochem Ltd Unit 14,Graphite Way

Hadfield

Derbyshire SK13 1QH UK

4. Emergency telephone number

2. Hazards Identification

+44(0)7855 268577 -

1. Classification of the substance or mixture

H225	Flam. Liq. 2	
H304	Asp. Tox. 1	
H336	STOT SE 3	
H400	Aquatic Acute 1	
H411	Aquatic Chronic 2	

Telephone:

Fax:

Email:

2. Label elements

Signal Word **Danger**









+44(0)1457 860111

+44(0)1457 892799

sds@fluorochem.co.uk

Hazard Statements

H225	Highly flammable liquid and vapour.	
H304	May be fatal if swallowed and enters airways.	
H336	May cause drowsiness or dizziness.	
H400	Very toxic to aquatic life.	
H411	Toxic to aquatic life with long lasting effects.	

Precautionary Phrases

P233	Keep container tightly closed.	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P370 + P378	In case of fire: Use sand, CO2 or extinguishing powder for extinction.	

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

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3. Composition / Information on Ingredients

1. Substances

Product Name	Hazards	Concentration
Ethylcyclohexane		
	H225, H304, H336, H400, H411 Aquatic Acute 1, Aquatic Chronic 2, Asp. Tox. 1, Flam. Liq. 2, STOT SE 3	<=100%

4. First Aid Measures

1. Description of first aid measures

Skin Contact P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower.

Wash immediately with plenty of soap and water.

Transfer to hospital if there are burns or symptoms of poisoning.

Eye Contact Rinse opened eye for several minutes under running water.

Transfer to hospital for specialist examination.

Ingestion P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331: Do NOT induce vomiting. Wash out mouth with water.

Transfer to hospital as soon as possible.

Inhalation P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Move to fresh air in case of accidental inhalation of vapours.

Transfer to hospital as soon as possible.

2. Most important symptoms and effects

There may be irritation and redness.

3. Indication of any immediate medical attention

No additional measures required

5. Firefighting measures

1. Extinguishing Media

Suitable P370 + P378: In case of fire: Use sand, CO2 or extinguishing powder for extinction.

no data

Unsuitable no data

2. Special Hazards arising from the substance or mixture

In combustion toxic fumes may form.

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.

Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Eliminate all sources of ignition.

Do not attempt to take action without suitable protective clothing – see section 8 of SDS.

2. Environmental Precautions

Do not discharge into drains or rivers.

Contain the spillage using bunding.

3. Methods & Materials

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P391: Collect spillage.

Mix with sand or vermiculite.

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

4. Preventing the occurrence of secondary hazards.

No Special Measures Required

7. Handling and Storage

1. Personal Precautions

Safe Handling Ensure there is sufficient ventilation of the area.

P240: Ground/bond container and receiving equipment.

P273: Avoid release to the environment.

Protection against

P241: Use explosion-proof electrical/ventilating/lighting/./ equipment.

explosions and fires

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

Normal measures for preventive fire protection.

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Store in cool, well ventilated area.

Keep away from sources of ignition. Keep container tightly closed. Keep away from direct sunlight.

Storage Controls No special requirements

Maintaining Integrity P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233: Keep container tightly closed.

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

No further information available.

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

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2. Exposure Controls

General protective and hygiene measures

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands during breaks and at the end of handling the material

Immediately remove any contaminated clothing

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

Ensure there is sufficient ventilation of the area.

Eye / Face Protection Safety Glasses with side-shields.

Protective gloves. Hand protection

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

Use breathing protection with high concentrations

Skin protection Handle with gloves.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory

practice.

Wash and dry hands. Protective clothing.

Other personal protection

advice

no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Clear light yellow liquid
Odour	No Data Available
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	-111 °C - lit.
Initial boiling point and boiling range	130 - 132 °C - lit.
Flash point	18 °C - closed cup
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	Upper: 6.6 %(V) / Lower: 0.95 %(V)
Vapour pressure	1.0kPa/20°C
Vapour density	No Data Available
Relative density	0.788 g/cm3 at 25 °C
Solubility(ies):	No Data Available
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	232°C
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

no unusual reactivity

2. Stability

Stable under normal conditions.

3. Possibility of Hazardous Reactions

no hazardous reactions known

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4. Conditions to Avoid

Heat, flames and sparks.

Extremes of temperature and direct sunlight.

5. Incompatible Materials

Oxidising agents.

Bases.

6. Hazardous Decomposition Products

In combustion emits toxic fumes.

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

11. Toxicology information

1. Information

Acute Toxicity no data

Skin corrosion/irritation irritant for skin and mucous membranes

Serious eve

Damage/irritation

irritant effect

Respiratory or skin

sensitisation

No sensitizing effect known

Germ Cell mutagenicity

not known

Carcinogenicity

not known

Reproductive toxicity

not known

STOT-single exposure

not known

STOT-repeated exposure

not known

Aspiration hazard

not known

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC,NTP,OSHA or ACGIH

12. Ecological Information

1. Toxicity

Toxicity to fish LC50 - Morone saxatilis - 8.8 mg/l - 96 h

2. Persistence and degradability

not known

3. Bio-Accumulative Potential

1110 - 2030 (conc. 10 ug/L), 1280 - 3470 (conc. 1 ug/L)

4. Mobility and Soil

not known

5. Results of PBT & vPvB assessment

not known

6. Other adverse effects

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities. Toxic to aquatic life.

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations

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Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

1. UN Number: 1993

2. Shipping Name: Flammable liquid, n.o.s.

3. Transport hazard class(es): : 3 Sub Class :



4. Packing group: ||

5. Environmental hazards:

6. Special Precautions for user:

7. Transport in bulk:

Road (ADR)

1. UN Number: 1993

2. Shipping Name: FLAMMABLE LIQUID, N.O.S (Ethylcyclohexane).

3. Transport hazard class(es): : 3 Sub Class :



4. Packing group: ||

5. Environmental hazards:

Special Precautions for user:

7. Transport in bulk:

Sea (IMDG)

6.

1. UN Number: 1993

2. Shipping Name: Flammable liquid, n.o.s.

3. Transport hazard class(es): : 3 Sub Class:



4. Packing group: ||

5. Environmental hazards:

6. Special Precautions for user:

7. Transport in bulk: IBCINS: IBC02

TANKPROV: TP1, TP8, TP28

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

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ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer (Regulations concerning 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 by the International Air Transport Association

ICAO:International Civil Aviation Organization ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service

2. Associated risk phrases according to European directive 67/548/EEC

3. 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.