

# **Product Safety Information Sheet**

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been created on a voluntary basis Issue date: 08/05/2025 Revision date: 08/05/2025 Version: 4.1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance

Substance name : FLUTEC TG PTMCH

IUPAC name : 1,1,2,3,3,4,5,5,6-Decafluoro-2,4,6-tris(trifluoromethyl)cyclohexane

EC-No. : 417-270-4 CAS-No. : 374-76-5 Formula : C9F18

Synonyms : Perfluoro-1,3,5-trimethylcyclohexane

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

### Relevant identified uses

Main use category : Industrial use, Professional use

# 1.3. Details of the supplier of product safety information sheet

F2 Chemicals Ltd

Lea Lane

Lea Town

GB PR4 0RZ Preston

UK

T +44 (0) 1772 775800

safety@f2chemicals.com

# 1.4. Emergency telephone number

No additional information available

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

# 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

### 2.3. Other hazards

No additional information available

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Substance type : Mono-constituent

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| Name | Product identifier                     |     | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP] |
|------|--|-----|---|
|      | CAS-No.: 374-76-5<br>EC-No.: 417-270-4 | 100 | Not classified  |

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

No additional information available

# 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

# 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel

Emergency procedures : Ventilate spillage area.

# 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

# 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

# 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

#### **Environmental exposure controls**

#### **Environmental exposure controls:**

Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

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

Physical state : Liquid Colour : Colourless.

Appearance : Clear, colorless liquid.

Molecular mass : ≈ 450 g/mol Odour Odourless. Odour threshold : Not applicable Melting point : ≈ -68 °C Boiling point : ≈ 127.4 °C Flammability : Not applicable Explosive properties : None. Oxidising properties : None. Lower explosion limit : Not available Upper explosion limit : Not available

Flash point : Not available Auto-ignition temperature : Not applicable Decomposition temperature :  $\approx 400\,^{\circ}\text{C}$  pH : Not applicable. Viscosity, kinematic :  $\approx 1.2\,\text{mm}^2/\text{s}$ 

Solubility : Soluble in aliphatic hydrocarbons. Soluble in chlorinated hydrocarbons. Insoluble in water.

: ≈ 2.275 mPa·s

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : ≈ 1.3 kPa Vapour pressure at 50°C : Not available Critical pressure : ≈ 18 bar Density : Not available : ≈ 1.888 Relative density : Not available Relative vapour density at 20°C Particle characteristics : Not applicable

# 9.2. Other information

Viscosity, dynamic

# Information with regard to physical hazard classes

Critical temperature : ≈ 268.9 °C

Other safety characteristics

Specific conductivity :  $\approx 0.001 \text{ pS/m}$ Refractive index :  $\approx 1.2973$ Other properties : Not flammable

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### SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

# 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified
Skin corrosion/irritation : Not classified

pH: Not applicable.

Serious eye damage/irritation : Not classified

pH: Not applicable.

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

# **FLUTEC TG PTMCH (374-76-5)**

Viscosity, kinematic ≈ 1.2 mm²/s

### 11.2. Information on other hazards

No additional information available

### **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.
Not classified

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

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# 12.2. Persistence and degradability

# **FLUTEC TG PTMCH (374-76-5)**

Persistence and degradability Rapidly degradable

### 12.3. Bioaccumulative potential

No additional information available

# 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                    | IMDG          | IATA          | ADN           | RID           |  |  |
|--|---------------|---------------|---------------|---------------|--|--|
| 14.1. UN number or ID number           |               |               |               |               |  |  |
| Not regulated for transport            |               |               |               |               |  |  |
| 14.2. UN proper shipping name          |               |               |               |               |  |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |  |
| 14.3. Transport hazard class(es)       |               |               |               |               |  |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |  |
| 14.4. Packing group                    |               |               |               |               |  |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |  |
| 14.5. Environmental hazards            |               |               |               |               |  |  |
| Not regulated                          | Not regulated | Not regulated | Not regulated | Not regulated |  |  |
| No supplementary information available |               |               |               |               |  |  |

# 14.6. Special precautions for user

# **Overland transport**

Not regulated

# Transport by sea

Not regulated

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#### Air transport

Not regulated

#### **Inland waterway transport**

Not regulated

#### Rail transport

Not regulated

# 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **EU-Regulations**

#### **REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

#### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

# **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

#### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

# Council Regulation (EC) for the control of dual-use items

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### **Drug Precursors Regulation (EC 273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

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F2 template (no freezing point)