

Revision Date 02/10/2015

Revision 1



**F2 CHEMICALS LIMITED**  
**SAFETY DATA SHEET**  
**FLUTEC TG-PPHP**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

<b>Product name</b>	FLUTEC TG-PPHP
<b>Synonyms, Trade Names</b>	1, 1, 2, 2, 3, 3, 4, 4, 4a, 4b, 5, 5, 6, 6, 7, 7, 8, 8, 8a, 9, 9, 10, 10, 10a-Tetracosaf fluorophenanthrene, Perfluoroperhydrophenanthrene
<b>CAS-No.</b>	306-91-2
<b>EC No.</b>	400-470-0

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

<b>Identified uses</b>	Performance liquid
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**1.3. Details of the supplier of the safety data sheet**

<b>Supplier</b>	F2 Chemicals Ltd. Lea Lane Lea Town Preston Lancs. PR4 0RZ UK Tel: +44(0) 1772 775804 e-Mail: safety@f2chemicals.com
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**1.4. Emergency telephone number**

+44(0) 1772 775833 (24 hrs)

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

<b>Classification (67/548/EEC)</b>	Not classified.
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**2.2. Label elements**

<b>EC No.</b>	400-470-0
<b>Risk Phrases</b>	NC Not classified.

**2.3. Other hazards**

Not Classified as PBT/vPvB by current EU criteria.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

<b>Product name</b>	FLUTEC TG-PPHP
<b>CAS-No.</b>	306-91-2
<b>EC No.</b>	400-470-0

**SECTION 4: FIRST AID MEASURES**

**4.1. Description of first aid measures**

**General information**

Non-hazardous substance.

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

## FLUTEC TG-PPHP

### General information

Non-hazardous substance.

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

No specific first aid measures noted.

## SECTION 5: FIREFIGHTING MEASURES

### **5.1. Extinguishing media**

#### Extinguishing media

This product is not flammable.

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

#### Hazardous combustion products

Very toxic gases/vapours/fumes of: Hydrogen fluoride (HF).

### **5.3. Advice for firefighters**

#### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **6.1. Personal precautions, protective equipment and emergency procedures**

Non-hazardous substance.

### **6.2. Environmental precautions**

Avoid release to the environment.

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

Absorb in vermiculite, dry sand or earth and place into containers.

### **6.4. Reference to other sections**

For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### **7.1. Precautions for safe handling**

Non-hazardous substance.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### Storage Class

Unspecified storage.

### **7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **8.1. Control parameters**

#### Ingredient Comments

No exposure limits noted for ingredient(s).

### **8.2. Exposure controls**

#### Protective equipment

## FLUTEC TG-PPHP

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Odourless.
<b>Solubility</b>	Insoluble in water
<b>Initial boiling point and boiling range (°C)</b>	215
<b>Melting point (°C)</b>	-31
<b>Relative density</b>	2.030
<b>Vapour pressure</b>	20 mbar 100°C
<b>pH-Value, Conc. Solution</b>	Not applicable.
<b>Viscosity</b>	28.4 mPas
<b>Decomposition temperature (°C)</b>	>400
<b>Flash point (°C)</b>	Not applicable.
<b>Auto Ignition Temperature (°C)</b>	Not applicable.
<b>Flammability Limit - Lower(%)</b>	Not applicable.
<b>Flammability Limit - Upper(%)</b>	Not applicable.
<b>Oxidising properties</b>	Does not meet the criteria for oxidising.

**9.2. Other information**

<b>Particle Size (Micron)</b>	Not applicable.
<b>Mol. Weight</b>	624

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

There are no known reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions.

**10.3. Possibility of hazardous reactions****Hazardous Polymerisation**

Will not polymerise.

**10.4. Conditions to avoid**

Avoid excessive heat for prolonged periods of time.

**10.5. Incompatible materials****Materials To Avoid**

Alkali metals.

**10.6. Hazardous decomposition products**

Fire creates: Hydrogen fluoride (HF).

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects**

## FLUTEC TG-PPHP

### Toxicological information

Non-hazardous substance.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Acute Fish Toxicity

Not considered toxic to fish.

### 12.2. Persistence and degradability

#### Degradability

The product is not readily biodegradable.

### 12.3. Bioaccumulative potential

#### Bioaccumulative potential

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

### 12.4. Mobility in soil

#### Mobility:

The product is insoluble in water.

### 12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

### 12.6. Other adverse effects

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Incinerate with provision for removal of effluent gases by scrubber.

## SECTION 14: TRANSPORT INFORMATION

#### General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally Hazardous Substance/Marine Pollutant

No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

**FLUTEC TG-PPHP**

Not applicable.

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Legislation**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

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<b>Revision</b>	1

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