

REVISION DATE 27/07/2011



**F2 CHEMICALS LIMITED**  
**SAFETY DATA SHEET**  
**Perfluoro-1,4-dimethylcyclohexane**

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**PRODUCT NAME** Perfluoro-1, 4-dimethylcyclohexane  
**CAS-NO.** 374-77-6  
**SYNONYMS, TRADE NAMES** 1, 1, 2, 2, 3, 4, 4, 5, 5, 6-Decafluoro-3, 6-bis(trifluoromethyl)cyclohexane , Perfluoro-1, 4-dimethylcyclohexane  
**APPLICATION** Performance Liquid  
**SUPPLIER** F2 Chemicals Ltd.  
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 Preston  
 Lancs PR4 0RZ UK  
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### 2 HAZARDS IDENTIFICATION

Not Classified as PBT/vPvB by current EU criteria.

**CLASSIFICATION (67/548)** Not classified.

**CLASSIFICATION (EC 1272/2008)**

Physical and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Not classified.

**LABEL IN ACCORDANCE WITH (EC) NO. 1272/2008**

Not classified.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

**CAS-NO.** 374-77-6

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

Non-hazardous substance.

#### NOTES TO THE PHYSICIAN

No specific first aid measures noted.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

This product is not flammable.

#### PROTECTIVE MEASURES IN FIRE

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

### 6 ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS

Non-hazardous substance.

#### ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

#### SPILL CLEAN UP METHODS

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

REVISION DATE 27/07/2011

## Perfluoro-1,4-dimethylcyclohexane

### 7 HANDLING AND STORAGE

#### USAGE PRECAUTIONS

Non-hazardous substance.

#### STORAGE CLASS

Unspecified storage.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### INGREDIENT COMMENTS

No exposure limits noted for ingredient(s).

#### PROTECTIVE EQUIPMENT

### 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear liquid.
COLOUR	Colourless.
ODOUR	Odourless.
SOLUBILITY	Insoluble in water
MOL. WEIGHT	400
BOILING POINT (°C)	102
MELTING POINT (°C)	<-80
RELATIVE DENSITY	1.838
VAPOUR DENSITY (air=1)	10.1
VAPOUR PRESSURE	4.6 kPa
CRITICAL TEMPERATURE (°C)	241
DECOMPOSITION TEMPERATURE (°C)	>400

### 10 STABILITY AND REACTIVITY

#### STABILITY

Stable under normal temperature conditions.

#### CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

#### HAZARDOUS POLYMERISATION

Will not polymerise.

#### MATERIALS TO AVOID

Alkali metals.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Hydrogen fluoride (HF).

### 11 TOXICOLOGICAL INFORMATION

#### TOXICOLOGICAL INFORMATION

Non-hazardous substance.

### 12 ECOLOGICAL INFORMATION

#### MOBILITY

The product is insoluble in water.

#### BIOACCUMULATION

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

#### DEGRADABILITY

The product is not readily biodegradable.

REVISION DATE 27/07/2011

**Perfluoro-1,4-dimethylcyclohexane****ACUTE FISH TOXICITY**

Not considered toxic to fish.

**13 DISPOSAL CONSIDERATIONS****DISPOSAL METHODS**

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

**14 TRANSPORT INFORMATION**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT No.

**15 REGULATORY INFORMATION****EU DIRECTIVES**

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.

**16 OTHER INFORMATION**

REVISION DATE 27/07/2011  
REV. NO./REPL. SDS GENERATED 2

**DISCLAIMER**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.