

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

|                              |  |
|------------------------------|--|
| <b>PRODUCT NAME</b>          | Perfluoro-1, 4-dimethylcyclohexane   |
| <b>CAS-NO.</b>               | 374-77-6   |
| <b>SYNONYMS, TRADE NAMES</b> | 1, 1, 2, 2, 3, 4, 4, 5, 5, 6-Decafluoro-3, 6-bis(trifluoromethyl)cyclohexane , Perfluoro-1, 4-dimethylcyclohexane  |
| <b>APPLICATION</b>           | Performance Liquid   |
| <b>SUPPLIER</b>              | F2 Chemicals Ltd.<br>Lea Lane<br>Lea Town<br>Preston<br>Lancs PR4 0RZ UK<br>Tel: +44(0) 1772 775804<br>Fax: +44(0) 1772 775809<br>e-Mail: safety@f2chemicals.com |
| <b>EMERGENCY TELEPHONE</b>   | +44(0) 1772 775833 (24 hrs)  |

### 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.

**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**

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

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**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.