



# Perfluoro-2-methylpentane

## Product Safety Information Sheet

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis

Issue date: 23/01/2024 Revision date: 23/01/2024 Version: 4.2

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

#### 1.1. Product identifier

Product form : Substance  
Substance name : Perfluoro-2-methylpentane  
IUPAC name : 1,1,1,2,2,3,3,4,5,5,5-Undecafluoro-4-(trifluoromethyl)pentane  
EC-No. : 206-575-6  
CAS-No. : 355-04-4  
REACH registration No : 01-2120041904-59, UK-01-7092030467-5  
Formula : C<sub>6</sub>F<sub>14</sub>

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

F2 Chemicals Ltd  
Lea Lane  
Lea Town  
PR4 0RZ Preston - UK  
T +44 (0) 1772 775800  
[safety@f2chemicals.com](mailto:safety@f2chemicals.com)

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 1772 775833 (24 hr)

### 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]

##### Labelling according to Directive 67/548/EEC or 1999/45/EC

#### 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Substance type : Mono-constituent

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Perfluoro-2-methylpentane	(CAS-No.) 355-04-4 (EC-No.) 206-575-6 (REACH-no) 01-2120041904-59, UK-01-7092030467-5	100	Not classified

**3.2. Mixtures**  
Not applicable

### SECTION 4: First aid measures

**4.1. Description of first aid measures**

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

**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**

**6.1.1. For non-emergency personnel**  
Emergency procedures : Ventilate spillage area.

**6.1.2. For emergency responders**

**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.

**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**

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### 8.2. 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
Appearance	: Clear, colorless liquid.
Molecular mass	: $\approx 338$ g/mol
Colour	: Colourless.
Odour	: Odourless.
Odour threshold	: Not applicable
pH	: Not applicable.
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: $\approx -90$ °C
Boiling point	: $\approx 57$ °C
Flash point	: No data available
Critical temperature	: $\approx 183.9$ °C
Auto-ignition temperature	: Not applicable
Decomposition temperature	: $\approx 400$ °C
Flammability	: Not applicable
Vapour pressure	: $\approx 27$ kPa
Critical pressure	: $\approx 18$ bar
Relative vapour density at 20 °C	: No data available
Relative density	: $\approx 1.718$
Solubility	: Soluble in aliphatic hydrocarbons. Soluble in chlorinated hydrocarbons. Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: $\approx 0.42$ mm <sup>2</sup> /s
Viscosity, dynamic	: $\approx 0.73$ mPa·s
Explosive properties	: None.
Oxidising properties	: None.
Explosive limits	: No data available

### 9.2. Other information

Specific conductivity	: $\approx 0.001$ pS/m
Refractive index	: $\approx 1.2564$
Other properties	: Not flammable.

## 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.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

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

#### Perfluoro-2-methylpentane (355-04-4)

Viscosity, kinematic	≈ 0.42 mm <sup>2</sup> /s
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### 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.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

#### 12.2. Persistence and degradability

No additional information available

#### 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. Other adverse effects

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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### SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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ADR	IMDG	IATA	ADN	RID
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
- Air transport  
Not regulated
- Inland waterway transport  
Not regulated
- Rail transport  
Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

SECTION 15: Regulatory information

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

- 15.1.1. EU-Regulations
- No REACH Annex XVII restrictions
- Perfluoro-2-methylpentane is not on the REACH Candidate List
- Perfluoro-2-methylpentane is not on the REACH Annex XIV List

- 15.1.2. National regulations
- No additional information available

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)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*