

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

Date of issue: 02/01/2018 Revision date: 15/12/2017 Version: 4.0

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

Product identifier

Product form : Substance

: FLUTEC TG PMEP Substance name

IUPAC name : 1,1,1,2,2,3,4,5,5,5-Decafluoro-3-(1',1',2',2',2'-pentafluoroethyl)-4-(trifluoromethyl)pentane

CAS-No. 354-97-2 Formula : C8F18

Synonyms : Perfluoro-2-methyl-3-ethylpentane

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

1.2.1. Relevant identified uses

: Industrial use, Professional use Main use category

1.2.2. Uses advised against

No additional information available

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

Emergency telephone number

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

SECTION 2: Hazards identification

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.

Label elements

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

No labelling applicable

Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Substances

Substance type : Mono-constituent

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
FLUTEC TG PMEP	(CAS-No.) 354-97-2	100	Not classified

3.2. **Mixtures**

Not applicable

02/01/2018 1/5 GB - en

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

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

: Toxic fumes may be released.

fire

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

No additional information available

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

No additional information available

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 : $\approx 438 \text{ g/mol}$ Colour : Colourless.

02/01/2018 GB - en 2/5

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

Odour : Odourless.

Odour threshold : Not applicable
pH : Not applicable.

Relative evaporation rate (butylacetate=1) : No data available

Melting point : \approx -70 °C Boiling point : \approx 103.2 °C Flash point : No data available

Critical temperature : ≈ °C

Auto-ignition temperature : Not applicable Decomposition temperature : $\approx 400 \,^{\circ}\text{C}$ Flammability (solid, gas) : Not applicable Vapour pressure : $\approx 4.5 \, \text{kPa}$ Critical pressure : $\approx bar$

Relative vapour density at 20 °C : No data available

Relative density : ≈ 1.839

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

Log Pow: No data availableViscosity, kinematic: $\approx 1.6 \text{ mm}^2/\text{s}$ Viscosity, dynamic: $\approx 2.95 \text{ mPa.s}$ Explosive properties: None.Oxidising properties: None.

Explosive limits : No data available

9.2. Other information

Specific conductivity : ≈ 0.001 pS/m

Refractive index : ≈

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.

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

02/01/2018 GB - en 3/5

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

STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

FLUTEC TG PMEP (354-97-2)

Viscosity, kinematic ≈ 1.6 mm²/s

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.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : 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

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 / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID		
14.1. UN number						
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated		
14.2. UN proper shippi	ng 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

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

02/01/2018 GB - en 4/5

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

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

Not applicable

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
FLUTEC TG PMEP is not on the REACH Candidate List
FLUTEC TG PMEP 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

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

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

02/01/2018 GB - en 5/5