

## 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

	T: Identification of the sub	ostance/mixture and of the comp		-9	
	oduct identifier				
Product form	1	: Substance			
Substance n	ame	: FLUTEC TG p-PDMCH			
UPAC name	9	: 1,1,2,2,3,4,4,5,5,6-Decafluoro-3,6-bis	,2,2,3,4,4,5,5,6-Decafluoro-3,6-bis(trifluoromethyl)cyclohexane		
CAS-No.		: 374-77-6			
Formula		: C8F16	16		
Synonyms : Perfluoro-1,4-dimethylcyclohexane					
1.2. Re	Relevant identified uses of the substance or mixture and uses advised against				
I.2.1. Re	elevant identified uses				
Main use cat	tegory	: Industrial use, Professional use			
I.2.2. Us	ses advised against				
	I information available				
l.3. De	etails of the supplier of the safety	data sheet			
<sup>-</sup> 2 Chemical ₋ea Lane ₋ea Town PR4 0RZ Pro Γ +44 (0) 17	eston - UK 72 775800				
safety@f2ch	emicals.com				
l.4. En	nergency telephone number				
Emergency r	number	: +44 (0) 1772 775833 (24 hr)			
SECTION	2: Hazards identification				
2.1. Classification	2: Hazards identification assification of the substance or n on according to Regulation (EC) N	nixture			
2.1. Classification Not classified Adverse phy To our know	2: Hazards identification assification of the substance or n on according to Regulation (EC) N d ysicochemical, human health and	nixture No. 1272/2008 [CLP]	in accordance with g	jood occupational hygiene and safe	
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#### 3.2. Mixtures

Not applicable

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SECTIO	N 4: First aid measures		
4.1. Description of first aid measures			
No additional information available			
4.2.	Most important symptoms and effects	s, both acute and delayed	
No additio	nal information available		
4.3.	Indication of any immediate medical a	attention and special treatment needed	
Treat sym	ptomatically.		
SECTIO	N 5: Firefighting measures		
5.1.	Extinguishing media		
Suitable e	xtinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2.	Special hazards arising from the subs	stance or mixture	
Hazardou: fire	s decomposition products in case of	: 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.	
SECTIO	N 6: Accidental release meas	ures	
6.1.	Personal precautions, protective equi	ipment and emergency procedures	
6.1.1.	For non-emergency personnel		
Emergenc	cy procedures	: Ventilate spillage area.	
6.1.2.	For emergency responders		
	nal information available		
6.2.	Environmental precautions		
Avoid rele	ase to the environment.		
6.3.	Methods and material for containmen	t and cleaning up	
Methods f	or cleaning up	: Take up liquid spill into absorbent material.	
Other info	rmation	: Dispose of materials or solid residues at an authorized site.	
6.4.	Reference to other sections		
For furthe	r information refer to section 13.		
SECTIO	N 7: Handling and storage		
7.1.	Precautions for safe handling		
Hygiene n	neasures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2.	Conditions for safe storage, including	g any incompatibilities	
Storage co	onditions	: Keep container tightly closed.	
7.3.	Specific end use(s)		
No additio	nal information available		
SECTIO	N 8: Exposure controls/perso	nal protection	
8.1.	Control parameters		
No additio	nal information available		
8.2.	Exposure controls		
Environmental exposure controls:			
	ase to the environment.		
SECTIO	N 9: Physical and chemical p	operties	
9.1.	Information on basic physical and ch	emical properties	

9.1. Information on basic physical and che	emical properties
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Molecular mass	: ≈ 400 g/mol
Colour	: Colourless.

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Odour	: Odourless.
Odour threshold	: Not applicable
рН	: Not applicable.
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: ≈-80 °C
Boiling point	: ≈ 102 °C
Flash point	: No data available
Critical temperature	: ≈240.9 °C
Auto-ignition temperature	: Not applicable
Decomposition temperature	: ≈ 400 °C
Flammability (solid, gas)	: Not applicable
Vapour pressure	: ≈4.6 kPa
Critical pressure	: ≈ 19 bar
Relative vapour density at 20 °C	: No data available
Relative density	: ≈ 1.838
Solubility	: Soluble in aliphatic hydrocarbons. Soluble in chlorinated hydrocarbons. Insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: ≈ 1.32 mm²/s
Viscosity, dynamic	: ≈ 2.427 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. I	Reactivity			
The produ	ct is non-reactive under normal conditions of use, storage and transport.			
10.2.	Chemical stability			
Stable und	Stable under normal conditions of use.			
10.3. I	Possibility of hazardous reactions			
Stable und	Stable under normal conditions of use.			
10.4.	Conditions to avoid			
None unde	None under recommended storage and handling conditions (see section 7).			
10.5. I	ncompatible materials			
No additional information available				
10.6. I	Hazardous decomposition products			

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

<b>SECTION 11: Toxicological inf</b>	formation	
11.1. Information on toxicological	leffects	
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	
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STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
FLUTEC TG p-PDMCH (374-77-6)	
Viscosity, kinematic	≈ 1.32 mm²/s

SECTI	ON 12, Ecological informatic		
SECH	ON 12: Ecological information	n.	
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

In accordance with ADK / RID / IMDG / IATA / ADIN				
ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shippi	14.2. UN proper shipping 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

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- Rail transport Not regulated

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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 p-PDMCH is not on the REACH Candidate List FLUTEC TG p-PDMCH 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