

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

	he substance/mixture and of the company/undertaking			
1.1. Product identifier				
Product form	: Substance			
Substance name	: Perfluoro-1,3-dimethylcyclohexane			
UPAC name	: 1,1,2,2,3,3,4,5,5,6-Decafluoro-4,6-bis(trifluoromethyl)cyclohexane			
EC-No.	: 206-386-9			
CAS-No.	: 335-27-3			
REACH registration No	: 01-2120228338-55			
Formula	: C8F16			
1.2. Relevant identified uses of	he substance or mixture and uses advised against			
.2.1. Relevant identified uses				
lain use category	: Industrial use, Professional use			
I.2.2. Uses advised against				
No additional information available				
I.3. Details of the supplier of th	e safety data sheet			
F2 Chemicals Ltd Lea Lane Lea Town PR4 0RZ Preston - UK T +44 (0) 1772 775800 safety@f2chemicals.com				
I.4. Emergency telephone num	er .			
Emergency number	: +44 (0) 1772 775833 (24 hr)			
2.1. Classification of the substa	nce or mixture			
SECTION 2: Hazards identific 2.1. Classification of the substa Classification according to Regulation Not classified	nce or mixture			
2.1. Classification of the substa Classification according to Regulation Not classified Adverse physicochemical, human he Fo our knowledge, this product does not	nce or mixture n (EC) No. 1272/2008 [CLP]	I hygiene and safe		
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2.1. Classification of the substance Classification according to Regulation Not classified Adverse physicochemical, human had To our knowledge, this product does not practice. 2.2. Label elements Label elements Labelling according to Regulation (Endotre to Regulation) No labelling applicable 2.3. Other hazards	n (EC) No. 1272/2008 [CLP] alth and environmental effects t present any particular risk, provided it is handled in accordance with good occupationa	I hygiene and safe		
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2.1. Classification of the substation Classification according to Regulation Not classified Adverse physicochemical, human has To our knowledge, this product does not practice. 2.2. Label elements Labelling according to Regulation (Endotreation) No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/info 8.1. Substances	n (EC) No. 1272/2008 [CLP] alth and environmental effects t present any particular risk, provided it is handled in accordance with good occupationa C) No. 1272/2008 [CLP]	I hygiene and safe		
 2.1. Classification of the substance substance type 2.1. Classified Adverse physicochemical, human has been as a substance substance type 2.1. Classified Adverse physicochemical, human has been as a substance type 2.1. Classified Adverse physicochemical, human has been as a substance type 	n (EC) No. 1272/2008 [CLP] alth and environmental effects t present any particular risk, provided it is handled in accordance with good occupationa C) No. 1272/2008 [CLP] rmation on ingredients : Mono-constituent			
 Classification of the substance of the subst	n (EC) No. 1272/2008 [CLP] alth and environmental effects t present any particular risk, provided it is handled in accordance with good occupationa C) No. 1272/2008 [CLP] rmation on ingredients : Mono-constituent	ion according to		

- 3.2. Mixtures
- Not applicable

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SECTION	4: First aid measures	
4.1. De	escription of first aid measures	
No additiona	I information available	
4.2. Mo	ost important symptoms and effects	, both acute and delayed
No additiona	I information available	
4.3. Inc	dication of any immediate medical a	ttention and special treatment needed
Treat sympto	omatically.	
SECTION	5: Firefighting measures	
	tinguishing media	
		Water spray. Dry powder. Foam. Carbon dioxide.
	becial hazards arising from the subs lecomposition products in case of :	Toxic fumes may be released.
fire		Toxic fullies may be released.
	lvice for firefighters	
Protection du	uring firefighting :	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION	6: Accidental release measu	Ires
6.1. Pe	ersonal precautions, protective equi	pment and emergency procedures
6.1.1. Fo	or non-emergency personnel	
Emergency		Ventilate spillage area.
	or emergency responders	
	I information available	
	vironmental precautions	
Avoid releas	e to the environment.	
	ethods and material for containment	
Methods for	•	Take up liquid spill into absorbent material.
Other inform	ation	Dispose of materials or solid residues at an authorized site.
6.4. Re	eference to other sections	
For further in	formation refer to section 13.	
SECTION	7: Handling and storage	
7.1. Pr	ecautions for safe handling	
Hygiene mea	asures :	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Co	onditions for safe storage, including	any incompatibilities
Storage con	ditions :	Keep container tightly closed.
7.3. Sp	pecific end use(s)	
No additiona	I information available	
SECTION	8: Exposure controls/persor	nal protection
	ontrol parameters	
	I information available	
0.0 5.	and a second	
8.2. Ex	posure controls	
Environmer	ntal exposure controls:	
Avoid releas	e to the environment.	
SECTION	9: Physical and chemical pro	operties
	formation on basic physical and che	

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Odour	: Odourless.
Odour threshold	: Not applicable
рН	: Not applicable.
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: ≈ -70 °C
Boiling point	: ≈ 102 °C
Flash point	: No data available
Critical temperature	: ≈241.6 °C
Auto-ignition temperature	: Not applicable
Decomposition temperature	: ≈ 400 °C
Flammability (solid, gas)	: Not applicable
Vapour pressure	: ≈ 4.8 kPa
Critical pressure	: ≈ 18.8 bar
Relative vapour density at 20 °C	: No data available
Relative density	: ≈ 1.828
Solubility	: Soluble in aliphatic hydrocarbons. Soluble in chlorinated hydrocarbons. Insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: ≈ 1.05 mm²/s
Viscosity, dynamic	: ≈ 1.919 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	: ≈ 1.2895
Other properties	: Not flammable.
SECTION 10: Stability and reactivit	V
10.1. Reactivity	
The product is non-reactive under normal cond	itions 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 inf	ormation	
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	
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STOT-single exposure	: Not	classified		
STOT-repeated exposure	: Not	classified		
Aspiration hazard	piration hazard : Not classified			
Perfluoro-1,3-dimethylcyd	clohexane (335-27-3)			
Viscosity, kinematic	≈ 1.()5 mm²/s		
SECTION 12: Ecologi	cal information			
12.1. Toxicity	- -			
Ecology - general		product is not considered harmf cts in the environment.	ul to aquatic organisms nor to	cause long-term adverse
Acute aquatic toxicity	: Not	classified		
Chronic aquatic toxicity	: Not	classified		
12.2. Persistence and o	•			
No additional information ava	ailable			
12.3. Bioaccumulative	potential			
No additional information ava	ailable			
12.4. Mobility in soil				
No additional information ava	No additional information available			
12.5. Results of PBT ar	nd vPvB assessment			
No additional information ava	ailable			
12.6. Other adverse eff	incts			
No additional information ava				
SECTION 13: Dispose				
13.1. Waste treatment		and of contents/container in and	ordenee with liceneed self-sta	r's corting instructions
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 Not regulated	ng name Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard		inot regulated		
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
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			-	
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards				
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

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

Perfluoro-1,3-dimethylcyclohexane is not on the REACH Candidate List Perfluoro-1,3-dimethylcyclohexane 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