

Product Safety Information Sheet

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

.1. Product identifier					
Product form	: Substance				
Substance name	: Perfluoro-2-methyl-3-ethylpentane				
JPAC name		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				
.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				
I.2.2. Uses advised against					
lo additional information available					
.3. Details of the supplier of the supplication of	he safety data sheet				
⁷ 2 Chemicals Ltd Lea Lane Lea Town PR4 0RZ Preston - UK F +44 (0) 1772 775800 safety@f2chemicals.com					
1.4. Emergency telephone nu	nher				
Emergency number	: +44 (0) 1772 775833 (24 hr)				
SECTION 2: Hazards identifi	cation				
2.1. Classification of the subs Classification according to Regula	tance or mixture				
2.1. Classification of the subs Classification according to Regular Not classified Adverse physicochemical, human Fo our knowledge, this product does	tance or mixture ion (EC) No. 1272/2008 [CLP]	led in accordance with	good occupational hygiene and sa		
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4.2.	Most important symptoms and effect	s, both acute and delayed			
No addition	No additional information available				
4.3. I	.3. Indication of any immediate medical attention and special treatment needed				
Treat symp	otomatically.				
SECTIO	N 5: Firefighting measures				
5.1. E					
Suitable ex	table extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.				
5.2.	Special hazards arising from the sub	stance or mixture			
Hazardous fire	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. F	Personal precautions, protective equ	ipment and emergency procedures			
_	For non-emergency personnel y procedures	: Ventilate spillage area.			
	For emergency responders nal information available				
6.2. E	Environmental precautions				
Avoid relea	ase to the environment.				
6.3.	Methods and material for containmen	t and cleaning up			
	or cleaning up	: Take up liquid spill into absorbent material.			
Other infor	mation	: Dispose of materials or solid residues at an authorized site.			
	Reference to other sections				
	information refer to section 13.				
SECTIO	N 7: Handling and storage				
7.1. F	Precautions for safe handling				
Hygiene m	leasures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			
	Conditions for safe storage, including				
Storage co		: Keep container tightly closed.			
	Specific end use(s)				
No additional information available					
	N 8: Exposure controls/perso	nal protection			
	Control parameters				
No additior	nal information available				
8.2. E	Exposure controls				
Environmo	ental 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	: ≈ 438 g/mol			
Colour	: Colourless.			
Odour	: Odourless.			
Odour threshold	: Not applicable			
рН	: Not applicable.			

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Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: ≈ -70 °C
Boiling point	: ≈ 103.2 °C
Flash point	: No data available
Critical temperature	: šC
Auto-ignition temperature	: Not applicable
Decomposition temperature	: ≈ 400 °C
Flammability (solid, gas)	: Not applicable
Vapour pressure	: ≈ 4.5 kPa
Critical pressure	: ≈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 available
Viscosity, kinematic	: ≈ 1.6 mm²/s
Viscosity, dynamic	: ≈ 2.95 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 reactivit	y

	Tow To. Stability and reactivity		
10.1.	Reactivity		
The pro	oduct is non-reactive under normal conditions	of use, storage and transport.	
10.2.	Chemical stability		
Stable ι	under normal conditions of use.		
10.3.	Possibility of hazardous reactions		
Stable ι	under normal conditions of use.		
10.4.	Conditions to avoid		
None ur	inder recommended storage and handling con	ditions (see section 7).	
10.5.	Incompatible materials		
No addi	litional information available		
10.6.	Hazardous decomposition products		
Under n	normal conditions of storage and use, hazardo	ous decomposition products should not be produced.	
SECTION 11: Toxicological information			
11.1.	Information on toxicological effects		
Acute to	oxicity (oral) : 1	Not classified	
A	· · · · · · · · · · · · · · · · · · ·		

TI.I. 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

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Aspiration hazard	: Not classified
Perfluoro-2-methyl-3-ethylpentane (354-97-2	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 assessme	ent
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ns
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	ΙΑΤΑ	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

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

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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-methyl-3-ethylpentane is not on the REACH Candidate List Perfluoro-2-methyl-3-ethylpentane 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