

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	e substance/mixture and of the cor	npany/u <u>ndertaki</u>	ng	
.1. Product identifier			<b>.</b>	
Product form	: Substance			
substance name	: Perfluoroperhydroindane			
JPAC name				
CAS-No.	: 374-80-1			
ormula	: C9F16			
.2. Relevant identified uses of the	e substance or mixture and uses advised a	gainst		
.2.1. Relevant identified uses				
fain use category	: Industrial use, Professional use			
.2.2. Uses advised against				
lo additional information available				
3. Details of the supplier of the s	afoty data shoot			
2 Chemicals Ltd				
ea Lane				
ea Town				
PR4 0RZ Preston - UK				
+44 (0) 1772 775800 afety@f2chemicals.com				
4. Emergency telephone number				
mergency number	: +44 (0) 1772 775833 (24 hr)			
assification according to Regulation of classified	(EC) No. 1272/2008 [CLP]			
Iassification according to Regulation of classified         ot classified         dverse physicochemical, human healt         o our knowledge, this product does not practice.         2.       Label elements         abelling according to Regulation (EC)         o labelling applicable	(EC) No. 1272/2008 [CLP] th and environmental effects resent any particular risk, provided it is handle	d in accordance with e	good occupational hygiene and sa	
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4.2. Most important symptoms and effect No additional information available	cts, both acute and delayed
	al 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 su	
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.
<b>SECTION 6: Accidental release mea</b>	sures
6.1. Personal precautions, protective eq	uipment 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 containing	ent 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, includi	ng any incompatibilities
Storage conditions	: Keep container tightly closed.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pers	onal 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	: ≈ 412 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	: ≈-4 °C
Boiling point	: ≈ 117.8 °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	: ≈ 2.4 kPa
Critical pressure	: ≈ bar
Relative vapour density at 20 °C	: No data available
Relative density	: ≈ 1.884
Solubility	: Soluble in aliphatic hydrocarbons. Soluble in chlorinated hydrocarbons. Insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: ≈ 2.66 mm²/s
Viscosity, dynamic	: ≈ 5.015 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	ty

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

(oral)	
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		
Perfluoroperhydroindane (374-80-1)			
Viscosity, kinematic	≈ 2.66 mm²/s		
<b>SECTION 12: Ecological information</b>	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			
<b>SECTION 13: Disposal consideratio</b>	ns		
13.1. Waste treatment methods			
Mante the star and matheda	. Dispace of contents/contained in concerdance with licensed collector's conting 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	ΙΑΤΑ	ADN	RID	
14.1. UN number	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

#### - 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 Perfluoroperhydroindane is not on the REACH Candidate List Perfluoroperhydroindane 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