

## 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 Reference number: 0500329500

Issue date: 3/4/2022 Version: 1.0

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

#### **1.1. Product identifier**

Product form Name Product code

- : Substance : THERMASOLV CF1
- : 0500329500

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec Use of the substance/mixture : Industrial : Immersion cooling

1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of product safety information sheet

#### Supplier

INVENTEC PERFORMANCE CHEMICALS SAS 26 rue des coulons P.O. Box BP 27 94363 BRY SUR MARNE France T +33 (0) 1 49 83 53 00 - F +33 (0) 1 48 81 24 40 ContactFDS@inventec.dehon.com

#### 1.4. Emergency telephone number

#### Emergency number

: +33 (0) 1 72 11 00 03 - 24h/24 7j/7

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

# SECTION 2: Hazards identification 2.1. Classification of the substance or mixture

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

Not classified

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

No labelling applicable

#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

# **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 3: Composition/information on ingredients			
3.1. Substances			
Name	: THERMASOLV CF1		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Perfluoropolyether	CAS-No.: 60164-51-4 EC-No.: 611-940-1	100	Not classified
3.2. Mixtures			
Not applicable			

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
: Allow affected person to breathe fresh air. Allow the victim to rest.
<ul> <li>Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.</li> </ul>
: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
both acute and delayed
: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

No supplementary information available.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Foam. Dry powder. Carbon dioxide. Water spray. Sand.</li><li>Do not use a heavy water stream.</li></ul>
5.2. Special hazards arising from the subst	tance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	<ul> <li>No fire hazard.</li> <li>No direct explosion hazard.</li> <li>Thermal decomposition generates : Hydrogen fluoride, Carbonyl fluoride.</li> </ul>
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental rel	lease measures	
6.1. Personal precautions, pr	otective equipment and emergency procedures	
General measures	: Avoid contact with skin and eyes.	
	GB - en	2/8

## 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

6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area. Use appropriate ventilation. Do not breathe vapour.
6.2. Environmental precautions	

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.	

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	<ul> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid high temperatures. Keep away from naked flames/heat.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the</li> </ul>	
	product.	
7.2. Conditions for safe storage, including	any incompatibilities	
Storage conditions	: Store in dry, cool, well-ventilated area. Store in original container. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
Incompatible products	: Strong bases. Strong acids.	
Incompatible materials	: Sources of ignition. Direct sunlight.	
7.3. Specific end use(s)		

No additional information available

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

# 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

### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No additional information available

#### 8.2.2. Personal protection equipment

**Personal protective equipment:** Avoid all unnecessary exposure.

#### 8.2.2.1. Eye and face protection

**Eye protection:** Safety glasses

8.2.2.2. Skin protection

## Skin and body protection:

Use chemically protective clothing.

#### Hand protection:

Protective gloves made of rubber

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols

#### 8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

#### Other information:

Do not eat, drink or smoke during use. Safety shower. Eye fountain.

#### **SECTION 9: Physical and chemical properties** 9.1. Information on basic physical and chemical properties Physical state : Liquid Colour : Colourless. Odour : odourless. : Not available Odour threshold Melting point : Not available Freezing point : Not available Softening point -100 °C : 160 - 195 Boiling point Flammability : Non flammable, Non flammable. Explosive properties : Not explosive. Oxidising properties : Non oxidizing. Explosive limits : Not available Lower explosion limit : Not available Upper explosion limit : Not available : Not available Flash point Auto-ignition temperature · Not available Decomposition temperature 300 °C pН Not available Viscosity, kinematic 1.81 mm<sup>2</sup>/s (25°C) : Water: < 14 mg/kg Solubility Partition coefficient n-octanol/water (Log Kow) : Not available : 0.1 kPa Vapour pressure Vapour pressure at 50°C : Not available Critical pressure : 0.8 kPa : Not available Density Relative density : 1.77 (25°C)

# 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

Relative vapour density at 20°C Particle characteristics	: Not available : Not applicable		
9.2. Other information			
9.2.1. Information with regard to physical hazard classes			

No additional information available

9.2.2. Other safety characteristics

No additional information available

# **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

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Avoid temperature above 300°C.

10.5. Incompatible materials

Strong acids. Strong bases. Aluminium. Magnesium.

**10.6. Hazardous decomposition products** 

Thermal decomposition generates : Fluorophosgene, Fluorinated hydrocarbons, Carbon dioxide, Carbon monoxide.

#### **SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC
--

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

# Product Safety Information Sheet

SECTION 12: Ecological 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

THERMASOLV CF1		
Viscosity, kinematic	1.81 mm²/s (25°C)	
11.2. Information on other hazards		
<b>11.2.1. Endocrine disrupting properties</b> No additional information available		
<b>11.2.2. Other information</b> Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met	

DECTION 12. Ecological information			
12.1. Toxicity			
azardous to the aquatic environment, short–term : Not classified acute)			
Hazardous to the aquatic environment, long-term : (chronic)	Not classified		
12.2. Persistence and degradability			
THERMASOLV CF1			
Persistence and degradability	Not established.		
12.3. Bioaccumulative potential			
THERMASOLV CF1			
Bioaccumulative potential	Not established.		
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
No additional information available			
12.6. Endocrine disrupting properties			
No additional information available			
12.7. Other adverse effects			
Additional information :	Avoid release to the environment. GWP (CO2=1/100 years) = 7800		

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Do not allow product to spread into the environment. Do not allow into drains or water courses.</li> </ul>
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.
Ecology - waste materials	: Avoid release to the environment.

# 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 14: Transport information			
In accordance with ADR / IMDG / IATA			
ADR	IMDG	ΙΑΤΑ	
14.1. UN number or ID number			
Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	
14.4. Packing group			
Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards			
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

14.7. Maritime transport in bulk according to IMO instruments

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

#### **REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

#### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

#### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

# 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

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 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

Data sources

 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
 None.

#### Other information

Safety Data Sheet (SDS), EU