

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SDS Reference Number: 100007900 Revision date: 2/10/2025 Supersedes version of: 10/19/2022 Version: 6.1

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

### 1.1. Product identifier

Product form : Mixture : R-422A Name Product code : 100007900

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

#### Relevant identified uses

Use of the substance/mixture : Refrigerant

## 1.3. Details of the supplier of the safety data sheet

Supplier

Dehon Service SAS 26 Avenue du Petit Parc 94683 VINCENNES Cedex

T 01 43 98 75 00, F 01 43 98 21 51 ContactFDS@climalife.dehon.com

Other

Climalife Kft Budepesta sucurcala Bucuresti Romania

Bulevardul Hristo Botev, Nr. 28,

Biroul NR 4, Modulul I Bucuresti Sectorul 3

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ContactFDS@climalife.dehon.com

Other

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Robert-Bosch-Strasse 14 40668 MEERBUSCH

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T 00 49 2150 7073 0, F 00 49 2150 7073 17

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Other

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Other

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Poligono Industrial SEPES

Parcela 10

46500 SAGUNTO (Valencia)

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ContactFDS@climalife.dehon.com

Other

Prochimac SA ZI Petits Champs 15 CH-1400 Yverdon-les-Bains

Switzerland

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Other

Other

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Other

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Other

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Sweden

T 00 46 735 01 90 50

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Other

Dehon Service Nerderland B.V. Van Konijnenburgweg 84 NL-4612 PL Bergen Op Zoom

Netherlands

T 00 31 164 212 830, F 00 31 164 212 831

ContactFDS@climalife.dehon.com

Other

**IDS Refrigeration Limited** 

22 Apex Court, Woodlands, Bradley Stoke

BS32 4JT Bristol United Kingdom

T 00 44 1179 802520, F 00 44 1179 802521

ContactFDS@climalife.dehon.com

Other

Galco s.a/n.v.

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1090 BRUSSELS

Belgium

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Other

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**United Arab Emirates** 

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Galco Singapore Branch 135 Cecil Street #10-01

Singapore

ContactFDS@climalife.dehon.com

### 1.4. Emergency telephone number

Emergency number : +33 (0) 1 72 11 00 03

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
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]

Press. Gas (Liq.) H280 Full text of hazard classes, H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Contact with the liquid may cause frostbite and serious damage to eyes.

## 2.2. Label elements

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

Hazard pictograms (CLP)



GHS04

Signal word (CLP) : Warning

Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated.

Precautionary statements (CLP) : P403 - Store in a well-ventilated place.

Extra phrases : Greenhouse fluorinated gas falling within Kyoto Protocol GWP= 3143.

## 2.3. Other hazards

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

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Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Pentafluoroethane (354-33-6), 1,1,1,2-Tetrafluoroethane (811-97-2), Isobutane (75-28-5)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Pentafluoroethane (354-33-6), 1,1,1,2-Tetrafluoroethane (811-97-2), Isobutane (75-28-5)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Pentafluoroethane	CAS-No.: 354-33-6 EC-No.: 206-557-8 REACH-no: 01-2119485636- 25	85.1	Press. Gas (Liq.), H280
1,1,1,2-Tetrafluoroethane	CAS-No.: 811-97-2 EC-No.: 212-377-0 REACH-no: 01-2119459374- 33	11.5	Press. Gas (Liq.), H280
Isobutane	CAS-No.: 75-28-5 EC-No.: 200-857-2 EC Index-No.: 601-004-00-0 REACH-no: 01-2119485395- 27	3.4	Flam. Gas 1A, H220 Press. Gas (Liq.), H280

Full text of H- and EUH-statements: see section 16

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air. If you feel

unwell, seek medical advice.

First-aid measures after skin contact : In the event of contact with the liquid: treat resulting frostbite as a burn. Immediately remove

contaminated clothing or footwear. Immediately rinse with plenty of water. If skin burns

appear, call a doctor immediately.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes

minimum). Consult an eye specialist immediately.

First-aid measures after ingestion : Not specifically applicable (gas).

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : CNS depression. Narcosis. Cardiac disorders. Lack of oxygen: risk of death.

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

No additional information available

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### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : All extinguishing agents can be used.

Unsuitable extinguishing media : None to our knowledge. If there is a fire close by, use suitable extinguishing agents.

### 5.2. Special hazards arising from the substance or mixture

Explosion hazard : pressure rise and possible bursting of container. On heating: Toxic and corrosive vapours

are released.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Self-contained breathing apparatus. Complete protective clothing.

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Remove all sources of ignition. Do not smoke. Evacuate

the danger area. Do not breathe smoke. Stop the leak.

For non-emergency personnel

Emergency procedures : Evacuate area.

For emergency responders

Emergency procedures : Evacuate the danger area.

#### 6.2. Environmental precautions

No additional information available

## 6.3. Methods and material for containment and cleaning up

Other information : Mechanically ventilate the spillage area.

## 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 : Avoid breathing mist, vapours. Do not get in eyes, on skin, or on clothing. Ventilation.

Vapours are heavier than air and may spread along floors. Under certain temperature and

pressure conditions may form a flammable mixture in the presence of air.

Hygiene measures : Do not drink, eat or smoke in the workplace.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store: in a cool, well-ventilated area, away from any source of heat, away from any source

of ignition.

Incompatible materials : Strong oxidizing agents. Alkaline hydroxide. Alkaline earth metals. Finely divided metals (Al,

Mg, Zn).

than 2% magnesium, Plastic materials.

## 7.3. Specific end use(s)

No additional information available

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## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

National occupational exposure and biological limit values

<u> </u>		
Pentafluoroethane (354-33-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	4900 mg/m³ (recommended)	
	1000 ppm (recommended)	
1,1,1,2-Tetrafluoroethane (811-97-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	4240 mg/m³	
	1000 ppm	
United Kingdom - Occupational Exposure Limits		
Local name	1,1,1,2-Tetrafluoroethane (HFC 134a)	
WEL TWA (OEL TWA)	4240 mg/m³	
	1000 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
Isobutane (75-28-5)		
Ireland - Occupational Exposure Limits		
Local name	Butane, all isomers: Isobutane	
OEL STEL	1000 ppm	
Regulatory reference	Chemical Agents Code of Practice 2021	

## **DNEL and PNEC**

DNEL and PNEC		
Pentafluoroethane (354-33-6)		
DNEL/DMEL (Workers)		
16444 mg/m³		
DNEL/DMEL (General population)		
1753 mg/m³		
PNEC (Water)		
0.1 mg/l		
1 mg/l		
PNEC (Sediment)		
0.6 mg/kg dwt		
1,1,1,2-Tetrafluoroethane (811-97-2)		
13936 mg/m³		
DNEL/DMEL (General population)		
2476 mg/m³		
PNEC (Water)		
0.1 mg/l		

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1,1,1,2-Tetrafluoroethane (811-97-2)	
PNEC aqua (marine water)	0.01 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater) 0.75 mg/kg dwt	
PNEC (STP)	
PNEC sewage treatment plant 73 mg/l	

## 8.2. Exposure controls

### Personal protection equipment

#### Eye and face protection

#### Eye protection:

Safety glasses with side shields

#### **Skin protection**

#### Skin and body protection:

Majority cotton protective clothing

#### Hand protection:

Leather protective gloves. Nitrile-rubber protective gloves. VITON gloves

### **Respiratory protection**

#### Respiratory protection:

In the event of insufficient ventilation: Gas mask with filter type AX. In a confined area: Self-contained breathing apparatus

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Gas Colour : Colourless. : Liquefied gas. Appearance Molecular mass : 113.6 g/mol Odour : slightly ethereal. Odour threshold : Not available Melting point : Not applicable : Not applicable Freezing point : -46.5 °C (1.013 bar) Boiling point Flammability : Non flammable.

Explosive properties : Not explosive material according to EC criteria.

Oxidising properties : Non oxidizing material according to EC criteria.

Lower explosion limit : Not available
Upper explosion limit : Not available
Flash point : None
Auto-ignition temperature : Not available
Decomposition temperature : Not available
pH : Not applicable
Viscosity, kinematic : Not applicable

Solubility : Poorly soluble in water.

Water: 1 g/l (25°C)

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : 12.757 bar (25°C)

Vapour pressure at 50°C : 23.46 bar Critical pressure : 37.45 bar

Density : 1.136 g/cm³ (25°C) Relative density : 1.14 (25°C)

Relative vapour density at 20°C : 4

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Particle characteristics : Not applicable

### 9.2. Other information

#### Information with regard to physical hazard classes

Critical temperature : 71.7 °C

Other safety characteristics

VOC content : 100 %

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Decomposes on exposure to temperature rise.

### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

## 10.3. Possibility of hazardous reactions

No information available. No polymerization.

### 10.4. Conditions to avoid

Avoid high temperatures. Avoid naked flame. Heating will cause a rise in pressure with a risk of bursting.

#### 10.5. Incompatible materials

Alkalis and caustic products. alkali metals. Alkaline earth metals. Finely divided metals (Al, Mg, Zn). Strong oxidizing agents.

## 10.6. Hazardous decomposition products

On thermal decomposition (pyrolysis), releases: Hydrogen fluoride, Carbon oxides (CO, CO2), Fluorinated hydrocarbons, Carbonyl halogenides.

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

## Pentafluoroethane (354-33-6)

LC50 Inhalation - Rat [ppm] 800000 ppm/4h

### 1,1,1,2-Tetrafluoroethane (811-97-2)

LC50 Inhalation - Rat [ppm] > 500000 ppm/4h

### Isobutane (75-28-5)

LC50 Inhalation - Rat 658 mg/l/4h

Skin corrosion/irritation : Not classified

pH: Not applicable

Additional information : Contact with the liquid causes frostbite

# Pentafluoroethane (354-33-6)

H Not applicable

### 1,1,1,2-Tetrafluoroethane (811-97-2)

pH Not applicable

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Serious eye damage/irritation : Not classified pH: Not applicable

Additional information : Contact with the liquefied gas may cause severe ocular lesions

Pentaf	luoroeth	ane (35	4-33-6)

pH Not applicable

## 1,1,1,2-Tetrafluoroethane (811-97-2)

pH Not applicable

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

## 1,1,1,2-Tetrafluoroethane (811-97-2)

NOAEL (chronic, oral, animal/male, 2 years) 300 mg/kg bodyweight rat

Reproductive toxicity : Not classified

## Pentafluoroethane (354-33-6)

NOAEL (animal/male, F0/P)	245 mg/kg
NOAEL (animal/female, F0/P)	245 mg/kg
STOT single expecure	Not classified

STOT-single exposure : Not classified STOT-repeated exposure : Not classified

## Pentafluoroethane (354-33-6)

NOAEC (inhalation, rat, dust/mist/fume, 90 days) 50000 ppm

### 1,1,1,2-Tetrafluoroethane (811-97-2)

NOAEC (inhalation, rat, gas, 90 days)
50000 ppm Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Aspiration hazard : Not applicable

## 1,1,1,2-Tetrafluoroethane (811-97-2)

Viscosity, kinematic 0.162 mm²/s

### 11.2. Information on other hazards

#### **Endocrine disrupting properties**

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Pentafluoroethane (354-33-6)	
LC50 - Fish [1]	> 81.8 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Fish [2]	450 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

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Pentafluoroethane (354-33-6)		
EC50 - Crustacea [1]	> 97.9 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	> 114 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)	
EC50 72h - Algae [2]	> 118 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)	
NOEC chronic fish	32 mg/l Test organisms (species): Duration: '30 d'	
1,1,1,2-Tetrafluoroethane (811-97-2)		
LC50 - Fish [1]	450 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 - Crustacea [1]	980 mg/l 48 Hours (Daphnia magna)	
EC50 72h - Algae [1]	> 118 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)	
EC50 72h - Algae [2]	> 114 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)	
12.2. Persistence and degradability		
R-422A		
Persistence and degradability	Not established.	
Pentafluoroethane (354-33-6)		
Persistence and degradability	5 % biodegradation after 28 days, Not readily biodegradable.	
1,1,1,2-Tetrafluoroethane (811-97-2)		
Persistence and degradability	Photodegradation in the air :, Half-life in air : 9,7 y, 3 % biodegradation after 28 days.	
Isobutane (75-28-5)		
Persistence and degradability	< 60 % biodegradation after 28 days.	
12.3. Bioaccumulative potential		
Pentafluoroethane (354-33-6)		
Partition coefficient n-octanol/water (Log Kow)	1.48 (25°C)	
1,1,1,2-Tetrafluoroethane (811-97-2)		

# 12.4. Mobility in soil

Partition coefficient n-octanol/water (Log Pow)

Pentafluoroethane (354-33-6)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.3 – 1.7
1,1,1,2-Tetrafluoroethane (811-97-2)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.5

1.06

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## 12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Pentafluoroethane (354-33-6), 1,1,1,2-Tetrafluoroethane (811-97-2), Isobutane (75-28-5)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Pentafluoroethane (354-33-6), 1,1,1,2-Tetrafluoroethane (811-97-2), Isobutane (75-28-5)

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

### 12.7. Other adverse effects

Other adverse effects : ODP (R-11=1)=0

Other adverse effects :	ODP (R-11=1)=0.	
R-422A		
Other information	GWP (CO2=1/100 years) = 3143	
Pentafluoroethane (354-33-6)		
Other information	GWP (CO2=1/100 years) = 3500	
1,1,1,2-Tetrafluoroethane (811-97-2)		
Other information	GWP (CO2=1/100 years) = 1430	

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Product/Packaging disposal recommendations

- Toduct/Tackaging disposal recommendations
- Additional information

- : Methods of disposal of packaging. Reuse or recycle following decontamination. Destroy at an authorised site.
- : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID	
14.1. UN number or ID number				
UN 3163	UN 3163	UN 3163	UN 3163	
14.2. UN proper shipping name				
LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2- Tetrafluoroethane ; Isobutane)	LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2- Tetrafluoroethane ; Isobutane)	Liquefied gas, n.o.s. (Pentafluoroethane ; 1,1,1,2- Tetrafluoroethane ; Isobutane)	LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2- Tetrafluoroethane ; Isobutane)	
Transport document description				
UN 3163 LIQUEFIED GAS, N.O.S. (Pentafluoroethane; 1,1,1,2- Tetrafluoroethane; Isobutane), 2.2, (C/E)	UN 3163 LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2- Tetrafluoroethane ; Isobutane), 2.2	UN 3163 Liquefied gas, n.o.s. (Pentafluoroethane ; 1,1,1,2- Tetrafluoroethane ; Isobutane), 2.2	UN 3163 LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2- Tetrafluoroethane ; Isobutane), 2.2	

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ADR	IMDG	IATA	RID
14.3. Transport hazard class(es)			
2.2	2.2	2.2	2.2
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-C EmS-No. (Spillage): S-V	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available			

## 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : 2A

Special provisions (ADR) : 274, 392, 662 Limited quantities (ADR) : 120ml Tank code (ADR) : PxBN(M) Transport category (ADR) : 3 20 :

Hazard identification number (Kemler No.)

Orange plates 20 3163

: C/E Tunnel restriction code (ADR) EAC code : 2TE

#### Transport by sea

: 274, 392 Special provisions (IMDG) Limited quantities (IMDG) : 120 ml

#### Air transport

PCA Limited quantities (IATA) : Forbidden PCA limited quantity max net quantity (IATA) : Forbidden PCA packing instructions (IATA) : 200 PCA max net quantity (IATA) : 75kg CAO packing instructions (IATA) : 200 CAO max net quantity (IATA) : 150kg

#### Rail transport

Classification code (RID) : 2A

Special provisions (RID) : 274, 392, 662 Limited quantities (RID) : 120ml Tank codes for RID tanks (RID) : PxBN(M) Transport category (RID) : 3 : CE3 Colis express (express parcels) (RID) Hazard identification number (RID) : 20

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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### **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **EU-Regulations**

Other information, restriction and prohibition regulations

: \* Regulation (EC) No 517/2014 : Greenhouse fluorinated gas falling within Kyoto Protocol.

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

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

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

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

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

Contains no substance(s) listed on the REACH Candidate List

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

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

#### VOC Directive (2004/42)

VOC content : 100 %

#### **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)

#### **National regulations**

Ensure all national/local regulations are observed.

### 15.2. Chemical safety assessment

No additional information available

### **SECTION 16: Other information**

Indication of changes		
Section	Changed item	Comments
	Adverse health effects caused by endocrine disrupting properties	Added
2.2	Precautionary statements (CLP)	Modified
9	Physico-chemical hazard data	Modified
12.2	Persistence and degradability	Added
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added

Other information

: For more information regarding the use of this product, please refer to our technical information or contact the sales department in your region.

2/10/2025 (Revision date) EU - en 12/13

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
Flam. Gas 1A	Flammable gases, Category 1A
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.

Safety Data Sheet (SDS), EU

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.