

Safety Data Sheet

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

SDS Reference Number: 100049400 Revision date: 1/30/2025 Supersedes version of: 4/15/2021 Version: 5.0

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

1.1. Product identifier

Product form : Mixture

: R-407F (PERFORMAX LT) Name

Product code : 100049400

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

Dehon Kälte-Fachvertriebs GmbH

Robert-Bosch-Strasse 14 40668 MEERBUSCH

Germany

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

ContactFDS@climalife.dehon.com

Other

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ContactFDS@climalife.dehon.com

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

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T 00 41 32 727 36 00, F 00 41 32 727 36 19

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Other

Other

Climalife Hongrie Kft. Villányi út 47 1118 Budapest Hungary T (36) 23 431 660

ContactFDS@climalife.dehon.com

Other

Climalife Supplied by Inventec Performance Chemicals Italia SRL

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Italia

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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

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T 00 32 2 421 01 84 , F 00 32 2 421 01 84 / 00 32 2 425 38 12

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Other

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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=1825).

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)	
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)	

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]
1,1,1,2-Tetrafluoroethane	CAS-No.: 811-97-2 EC-No.: 212-377-0 REACH-no: 01-2119459374- 33	40	Press. Gas (Liq.), H280
Pentafluoroethane	CAS-No.: 354-33-6 EC-No.: 206-557-8 REACH-no: 01-2119485636- 25	30	Press. Gas (Liq.), H280
Difluoromethane	CAS-No.: 75-10-5 EC-No.: 200-839-4 REACH-no: 01-2119471312- 47	30	Flam. Gas 1B, H221 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

Pentafluoroethane (354-33-6)				
EU - Indicative Occupational Exposure Limit (IOEL)				
IOEL TWA	4900 mg/m³ (recommended)			
	1000 ppm (recommended)			
Difluoromethane (75-10-5)				
EU - Indicative Occupational Exposure Limit (IOEL)				
IOEL TWA	2200 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				

DNEL and PNEC

DNEL AND PNEC			
Pentafluoroethane (354-33-6)			
DNEL/DMEL (Workers)			
Long-term - systemic effects, inhalation	16444 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects, inhalation	1753 mg/m³		
PNEC (Water)			
PNEC aqua (freshwater)	0.1 mg/l		
PNEC aqua (intermittent, freshwater)	1 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater) 0.6 mg/kg dwt			
Difluoromethane (75-10-5)			
DNEL/DMEL (Workers)			
Long-term - systemic effects, inhalation	7035 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects, inhalation	750 mg/m³		
PNEC (Water)			
PNEC aqua (freshwater)	0.142 mg/l		

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Difluoromethane (75-10-5)		
PNEC (Sediment)		
PNEC sediment (freshwater)	0.534 mg/kg dwt	
1,1,1,2-Tetrafluoroethane (811-97-2)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, inhalation	13936 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects, inhalation	2476 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0.1 mg/l	
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. Appearance : Liquefied gas. Odour : slightly ethereal. Odour threshold : Not available Melting point : Not applicable Freezing point : Not applicable Boiling point : -45.5 °C 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 : Not applicable

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: Not available Auto-ignition temperature Decomposition temperature : Not available : Not applicable Viscosity, kinematic : Not applicable Solubility : Insoluble in water. Partition coefficient n-octanol/water (Log Kow) Not available : 11.4 bar (20°C) Vapour pressure Vapour pressure at 50°C : 24.3 bar (50°C) Density : 1.139 g/cm3 (20°C) Relative density : Not applicable Relative vapour density at 20°C : Not available : Not applicable Particle characteristics

9.2. Other information

Information with regard to physical hazard classes

Critical temperature : 86.05 °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	
Difluoromethane (75-10-5)		
LC50 Inhalation - Rat [ppm]	> 520000 ppm/4h	
1,1,1,2-Tetrafluoroethane (811-97-2)		
LC50 Inhalation - Rat [ppm] > 500000 ppm/4h		

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Skin corrosion/irritation : Not classified pH: Not applicable

Additional information : Contact with the liquid causes frostbite

Pentafluoroethane (354-33-6)				
рН	Not applicable			
Difluoromethane (75-10-5)				
рН	N/A			
1,1,1,2-Tetrafluoroethane (811-97-2)				
рН	Not applicable			
Serious eye damage/irritation :	Not classified			
Additional information :	pH: Not applicable Contact with the liquefied gas may cause severe ocular lesions			
Pentafluoroethane (354-33-6)				
рН	Not applicable			
Difluoromethane (75-10-5)				
На	N/A			

1	-1 1	1 2-	[etraf	luoro	othane	(811	-97-21

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)

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

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 exposure :	Not classified

50000 ppm

STOT-repeated exposure	: Not classified
Pentafluoroethane (354-33-6)	

Difluoromethane (75-10-5)	
NOAEC (inhalation, rat, gas, 90 days)	50000 ppmv/6h/day

1,1,1,2-Tetrafluoroetnane (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

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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

(chronic)

: Not classified

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)			
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'			
Difluoromethane (75-10-5)				
LC50 - Fish [1]	> 81.8 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)			
EC50 - Crustacea [1]	> 97.9 mg/l Test organisms (species): Daphnia magna			
EC50 - Crustacea [2]	> 97.9 mg/l Daphnia magna			
EC50 72h - Algae [1] > 118 mg/l Test organisms (species): Raphidocelis subcapitata (previous Pseudokirchneriella subcapitata, Selenastrum capricornutum)				
EC50 72h - Algae [2] > 114 mg/l Test organisms (species): Raphidocelis subcapitata (previous nar Pseudokirchneriella subcapitata, Selenastrum capricornutum)				
EC50 96h - Algae [1]	313 mg/l			
1,1,1,2-Tetrafluoroethane (811-97-2)				
LC50 - Fish [1] 450 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: 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)			

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12.2. Persistence and degradability

R-407F (PERFORMAX LT)		
Persistence and degradability	Not established.	
Pentafluoroethane (354-33-6)		
Persistence and degradability 5 % biodegradation after 28 days, Not readily biodegradable.		
Difluoromethane (75-10-5)		
Persistence and degradability Biodegradation 5 % 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.		

12.3. Bioaccumulative potential

Pentafluoroethane (354-33-6)	
Partition coefficient n-octanol/water (Log Kow)	1.48 (25°C)
Difluoromethane (75-10-5)	
Partition coefficient n-octanol/water (Log Pow) 0.21	
1,1,1,2-Tetrafluoroethane (811-97-2)	
Partition coefficient n-octanol/water (Log Pow) 1.06	

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

	Component		
- 1	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)	
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)	

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.

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R-407F (PERFORMAX LT)		
Other information	GWP (CO2=1/100 years) = 1825	
Pentafluoroethane (354-33-6)		
Other information GWP (CO2=1/100 years) = 3500		
Difluoromethane (75-10-5)		
Other information GWP (CO2=1/100 years) = 675		
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

: Methods of disposal of packaging. Reuse or recycle following decontamination. Destroy at an authorised site.

Additional information

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 nam	e		
LIQUEFIED GAS, N.O.S. (1,1,1,2- Tetrafluoroethane ; Pentafluoroethane ; Difluoromethane)	LIQUEFIED GAS, N.O.S. (1,1,1,2- Tetrafluoroethane; Pentafluoroethane; Difluoromethane)	Liquefied gas, n.o.s. (1,1,1,2- Tetrafluoroethane ; Pentafluoroethane ; Difluoromethane)	LIQUEFIED GAS, N.O.S. (1,1,1,2- Tetrafluoroethane; Pentafluoroethane; Difluoromethane)
Transport document description			
UN 3163 LIQUEFIED GAS, N.O.S. (1,1,1,2-Tetrafluoroethane; Pentafluoroethane; Difluoromethane), 2.2, (C/E)	UN 3163 LIQUEFIED GAS, N.O.S. (1,1,1,2-Tetrafluoroethane; Pentafluoroethane; Difluoromethane), 2.2	UN 3163 Liquefied gas, n.o.s. (1,1,1,2-Tetrafluoroethane ; Pentafluoroethane ; Difluoromethane), 2.2	UN 3163 LIQUEFIED GAS, N.O.S. (1,1,1,2-Tetrafluoroethane; Pentafluoroethane; Difluoromethane), 2.2
14.3. Transport hazard class(e	es)		
2.2	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

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ADR	IMDG	IATA	RID
No supplementary information available			

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 2A

Special provisions (ADR): 274, 660, 662Limited quantities (ADR): 120mlTank code (ADR): PxBN(M)Transport category (ADR): 3

Hazard identification number (Kemler No.) : 20
Orange plates :

20 3163

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

Transport by sea

Special provisions (IMDG) : 274 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, 660, 662
Limited quantities (RID) : 120ml
Tank codes for RID tanks (RID) : PxBN(M)
Transport category (RID) : 3
Colis express (express parcels) (RID) : CE3
Hazard identification number (RID) : 20

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

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)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
40.	Difluoromethane

REACH Annex XIV (Authorisation List)

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

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

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:

All chapters have been modified since the previous version.

Indication of changes		
Section	Changed item	Comments
	Issue date	Added
	Supersedes	Modified
	Revision date	Modified
	Adverse health effects caused by endocrine disrupting properties	Added
2.2	Precautionary statements (CLP)	Modified
3	Composition/information on ingredients	Modified
9	VOC content	Added
12.2	Persistence and degradability	Added
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added
15.1	REACH Annex XVII	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.

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Full text of H- and EUH-statements:	
Flam. Gas 1B	Flammable gases, Category 1B
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
H221	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.