

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: 10007900 Revision date: 10/19/2022 Supersedes version of: 7/29/2015 Version: 6.00

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

1.1. Product identifier

Product form

: Mixture : R-422A

: 10007900

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

1.2.1. Relevant identified uses

Use of the substance/mixture

: Refrigerant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Name Product code

Dehon Service SAS 26 Avenue du Petit Parc 94683 VINCENNES Cedex France 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 Romania <u>ContactFDS@climalife.dehon.com</u>

Other

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Other

Dehon Service Belgium s.a/n.v. Avenue Carton de Wiart, 79 1090 Bruxelles Belgium T 00 32 2 421 01 70 - F 00 32 2 426 96 62 <u>ContactFDS@climalife.dehon.com</u>

Other

Friogas sa Poligono Industrial SEPES Parcela 10 46500 SAGUNTO (Valencia) Spain T 00 34 9 6 266 36 32 - F 00 34 9 6 266 50 25 ContactFDS@climalife.dehon.com

Other

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10/19/2022 (Revision date)

Other Climali

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Other

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Other

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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 <u>ContactFDS@climalife.dehon.com</u>

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

Climalife Asia Corporation Room 302-A82, N°.3 Building 1509, Xin Zhen Road Minhang District, 201101 SHANGHAI CHINA T +86 21 6442 3972 - F +86 21 6442 3952 climalife.galco@climalife.dehon.com

Safety Data Sheet

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

1.4. Emergency telephone number

Emergency number	: +33 (0) 1 72 11 00 03			
Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	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.)

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.

H280

2.2. Label elements

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

Hazard pictograms (CLP)

	GHS04
Signal word (CLP)	: Warning
Contains	: Pentafluoroethane, 1,1,1,2-Tetrafluoroethane, Isobutane
Hazard statements (CLP)	: H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (CLP)	: P410+P403 - Protect from sunlight. Store in a well-ventilated place.
Extra phrases	: Greenhouse fluorinated gas falling within Kyoto Protocol GWP= 3143.

2.3. Other hazards

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

Component	
Pentafluoroethane (354-33-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1,1,1,2-Tetrafluoroethane (811-97-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Isobutane (75-28-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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 3: Composition/information on ingredients

3.1. Substances

Not applicable

Safety Data Sheet

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

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

SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media Unsuitable extinguishing media	: All extinguishing agents can be used. : 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 Protection during firefighting	: Use water spray or fog for cooling exposed containers.: Self-contained breathing apparatus. Complete protective clothing.			

Safety Data Sheet

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

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.		
6.1.1. For non-emergency personnel			
Emergency procedures	: Evacuate area.		
6.1.2. 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 Hygiene measures	 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. Do not drink, eat or smoke in the workplace.
7.2. Conditions for safe storage, including	ng 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).
Packaging materials	: Recommended materials Stainless steel, Carbon steel. Do not use : Alloys containing more than 2% magnesium, Plastic materials.
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

Pentafluoroethane (354-33-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA 4900 mg/m ³ (recommended)		
IOEL TWA [ppm] 1000 ppm (recommended)		
1,1,1,2-Tetrafluoroethane (811-97-2)		
United Kingdom - Occupational Exposure Limits		
Local name 1,1,1,2-Tetrafluoroethane (HFC 134a)		

Safety Data Sheet

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

1,1,1,2-Tetrafluoroethane (811-97-2)	
WEL TWA (OEL TWA) [1]	4240 mg/m³
WEL TWA (OEL TWA) [2]	1000 ppm
Regulatory reference	EH40. HSE

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

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection: Safety glasses with side shields

8.2.2.2. Skin protection

Skin and body protection: Majority cotton protective clothing

Hand protection:

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

8.2.2.3. Respiratory protection

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

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

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 :	-46.5 °C (1.013 bar)
Flammability	Non flammable.
Explosive properties :	Not explosive material according to EC criteria.
Oxidising properties :	Non oxidizing material according to EC criteria.
Explosive limits :	Not available

Safety Data Sheet

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

Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	None
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
рН	:	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	:	23.3 bar
Critical pressure	:	37.5 bar
Density	:	1.136 g/cm3 (25°C)
Relative density	:	1.14 (25°C)
Relative vapour density at 20 °C	:	4
Particle characteristics	:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Critical temperature

: 71.7 °C

9.2.2. Other safety characteristics

No additional information available

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) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Not classified 	
Pentafluoroethane (354-33-6)		
LC50 Inhalation - Rat [ppm]	800000 ppm/4h	

Safety Data Sheet

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

LC50 Inhalation - Rat [ppm]	> 500000 ppm/4h
Isobutane (75-28-5)	
LC50 Inhalation - Rat	658 mg/l/4h
Skin corrosion/irritation	: Not classified
Additional information	pH: Not applicable : Contact with the liquid causes frostbite
Pentafluoroethane (354-33-6)	
рН	Not applicable
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
1,1,1,2-Tetrafluoroethane (811-97-2)	
рН	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
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

No additional information available

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]	> 100 mg/l 96 Hours (Oncorhynchus mykiss)		
EC50 - Crustacea [1]	> 100 mg/l 48 Hours (Daphnia magna)		
EC50 72h - Algae [1]	> 114 mg/l 72 Hours (Pseudokirchneriella subcapitata)		
1,1,1,2-Tetrafluoroethane (811-97-2)			
LC50 - Fish [1]	450 mg/l 96 Hours (Oncorhynchus mykiss)		
EC50 - Crustacea [1]	980 mg/l 48 Hours (Daphnia magna)		

Safety Data Sheet

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

1,1,1,2-Tetrafluoroethane (811-97-2)	
EC50 72h - Algae [1]	> 118 mg/l (Selenastrum capricornutum)
12.2. Persistence and degradability	
Pentafluoroethane (354-33-6)	
Persistence and degradability	5 % biodegradation after 28 days.
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 Pow)	1.48
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	
No additional information available	
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
Other adverse effects Additional information	 Ozone depletion factor ODP (R-11=1) = 0. Global warming potential (GWP) 3143
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

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



Safety Data Sheet

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

(Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane) Transport document descripti UN 3163 LIQUEFIED GAS, N.O.S. (Pentafluoroethane ;	UN 3163 name LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane) tion JN 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) 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) UN 3163 LIQUEFIED GAS N.O.S. (Pentafluoroethane 1,1,1,2-Tetrafluoroethane ; Isobutane), 2.2
14.2. UN proper shipping r LIQUEFIED GAS, N.O.S. (Pentafluoroethane; 1,1,1,2-Tetrafluoroethane; Isobutane) Transport document descripti UN 3163 LIQUEFIED GAS, N.O.S. (Pentafluoroethane; 1,1,1,2-Tetrafluoroethane; 1,1,1,2-Tetrafluoroethane; 1,1,1,2-Tetrafluoroethane; 1,1,1,2-Tetrafluoroethane; 1,1,1,2-Tetrafluoroethane; 1,2,2, (C/E) 14.3. Transport hazard clast 2.2 2.2 14.4. Packing group	name LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane) tion JN 3163 LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane), 2.2	Liquefied gas, n.o.s. (Pentafluoroethane ; 1,1,1,2- Tetrafluoroethane ; Isobutane) UN 3163 Liquefied gas, n.o.s. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane), 2.2	LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane) UN 3163 LIQUEFIED GAS N.O.S. (Pentafluoroethane 1,1,1,2-Tetrafluoroethane ;
LIQUEFIED GAS, N.O.S. (Pentafluoroethane; 1,1,1,2-Tetrafluoroethane; Isobutane) Transport document descripti UN 3163 LIQUEFIED GAS, N.O.S. (Pentafluoroethane; 1,1,1,2-Tetrafluoroethane; Isobutane), 2.2, (C/E) 14.3. Transport hazard class 2.2 2.2 14.4. Packing group	LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane) tion JN 3163 LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane), 2.2	Tetrafluoroethane ; Isobutane) UN 3163 Liquefied gas, n.o.s. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane), 2.2	(Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane) UN 3163 LIQUEFIED GAS N.O.S. (Pentafluoroethane 1,1,1,2-Tetrafluoroethane ;
(Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane) Transport document descripti UN 3163 LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane), 2.2, (C/E) 14.3. Transport hazard class 2.2 2.2 14.4. Packing group	(Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane) tion JN 3163 LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane), 2.2 ass(es)	Tetrafluoroethane ; Isobutane) UN 3163 Liquefied gas, n.o.s. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane), 2.2	(Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane) UN 3163 LIQUEFIED GAS N.O.S. (Pentafluoroethane 1,1,1,2-Tetrafluoroethane ;
UN 3163 LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane), 2.2, (C/E) 14.3. Transport hazard class 2.2 2.2 14.4. Packing group	JN 3163 LIQUEFIED GAS, N.O.S. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane), 2.2	1,1,1,2-Tetrafluoroethane ; Isobutane), 2.2	N.O.S. (Pentafluoroethane 1,1,1,2-Tetrafluoroethane ;
N.O.S. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane), 2.2, (C/E) 14.3. Transport hazard clas 2.2 2.2 14.4. Packing group	N.O.S. (Pentafluoroethane ; 1,1,1,2-Tetrafluoroethane ; Isobutane), 2.2	1,1,1,2-Tetrafluoroethane ; Isobutane), 2.2	N.O.S. (Pentafluoroethane 1,1,1,2-Tetrafluoroethane ;
2.2 2.2 14.4. Packing group			
14.4. Packing group	2.2		
		2.2	2.2
Not applicable			
	Not applicable	Not applicable	Not applicable
14.5. Environmental hazar	rds		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information a	available		
14.6. Special precautions f	for user		
Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Tank code (ADR) Transport category (ADR) Hazard identification number (Ke Orange plates	: 120 : PxE : 3 :emler No.) : 20 :	20 3163	
EAC code	: 2TE		
Transport by sea Special provisions (IMDG) Limited quantities (IMDG) EmS-No. (Fire) EmS-No. (Spillage)	: 274 : 120 : F-C : S-V		
Air transport PCA Limited quantities (IATA) PCA limited quantity max net qua PCA packing instructions (IATA)		bidden bidden	

Safety Data Sheet

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

PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 200
CAO max net quantity (IATA)	: 150kg
Rail transport Classification code (RID) Special provisions (RID) Limited quantities (RID) Tank codes for RID tanks (RID) Transport category (RID) Colis express (express parcels) (RID) Hazard identification number (RID)	: 2A : 274, 392, 662 : 120ml : PxBN(M) : 3 : CE3 : 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

15.1.1. EU-Regulations

Other information, restriction and prohibition : * Regulation (EC) No 517/2014 : Greenhouse fluorinated gas falling within Kyoto Protocol. regulations

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 (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

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

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.

Safety Data Sheet

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

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.

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

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.