

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: 100147100 Issue date: 9/19/2023 Revision date: 1/16/2024 Supersedes version of: 10/24/2023 Version: 1.2

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

1.1. Product identifier

Product form

Name

Product code

- : Mixture
- : Solstice® N71 (R-471)
- : 100147100

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

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

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

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 ContactFDS@climalife.dehon.com

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

Other

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

Other

Climalife Hongrie Kft Villányi út 47 1118 Budaörs Hungary T (36) 23 431 660, F (36) 23 431 661 ContactFDS@climalife.dehon.com

Other

Climalife Supplied by Inventec Performance Chemicals Italia SRL Via del Lavoro, 10/G 20874 Busnago MB Italia T +39 39-5973480, F +39 39-5973490 <u>ContactFDS@climalife.dehon.com</u>

Other

Dehon nordic service Östra Hamngatan 50B 3tr 41109 GÖTEBORG Sweden T 00 46 735 01 90 50 ContactFDS@climalife.dehon.com

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

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

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
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] H280 Press. Gas (Liq.) Aquatic Chronic 3 H412

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.

: Greenhouse fluorinated gas falling within Kyoto Protocol (GWP=148).

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/200

Hazard pictograms (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

08 [CLP]
\wedge
GHS04
Warning
H280 - Contains gas under pressure; may explode if heated.
H412 - Harmful to aquatic life with long lasting effects.
P273 - Avoid release to the environment.
P403 - Store in a well-ventilated place.
P501 - Dispose of contents and container to hazardous or special waste collection point, in
accordance with local, regional, national and/or international regulation.

•

:

Extra phrases

Signal word (CLP)

2.3. Other hazards

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

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	(2E)-1,1,1,4,4,4-hexafluorobut-2-ene (66711-86-2), 1,1,1,2,3,3,3-heptafluoropropane (431- 89-0)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	(2E)-1,1,1,4,4,4-hexafluorobut-2-ene (66711-86-2), 1,1,1,2,3,3,3-heptafluoropropane (431- 89-0)

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 %

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Trans-1,3,3,3-Tetrafluoroprop-1-ene	CAS-No.: 29118-24-9 EC-No.: 471-480-0 REACH-no: 01-0000019758- 54	70 – 80	Press. Gas (Liq.), H280
(2E)-1,1,1,4,4,4-hexafluorobut-2-ene	CAS-No.: 66711-86-2 EC-No.: 811-213-0 REACH-no: 01-2119929623- 35	10 – 20	Press. Gas (Liq.), H280 Aquatic Chronic 2, H411
1,1,1,2,3,3,3-heptafluoropropane	CAS-No.: 431-89-0 EC-No.: 207-079-2 REACH-no: 01-2119485489- 18	1 – 10	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 effect	cts, 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.		
Hazardous decomposition products in case of fire	: Thermal decomposition generates : Carbon oxides (CO, CO2), Carbonyl halogenides, Halogenated compounds, Hydrogen fluoride. Toxic and corrosive fumes are released.		

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5.3. Advice for firefighters	
Precautionary measures fire	Do not breathe fumes from fires or vapours from decomposition. Do not attempt to take action without suitable protective equipment.
Firefighting instructions Protection during firefighting	Use water spray or fog for cooling exposed containers.Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measure	res		
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			
No additional information available			
6.1.2. For emergency responders			
No additional information available			
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".		
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. Do not use joint paste that may contain peroxides.
Hygiene measures	: Do not drink, eat or smoke in the workplace.
7.2. Conditions for safe storage, including	g 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

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Trans-1,3,3,3-Tetrafluoroprop-1-ene (29118	3-24-9)
EU - Indicative Occupational Exposure Limit (IO	EL)
IOEL TWA	800 ppm (recommended)
1,1,1,2,3,3,3-heptafluoropropane (431-89-0)	
EU - Indicative Occupational Exposure Limit (IO	EL)
	No specific limit
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	
Trans-1,3,3,3-Tetrafluoroprop-1-ene (29118	3-24-9)
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	3902 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	830 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.1 mg/l
1,1,1,2,3,3,3-heptafluoropropane (431-89-0))
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	61279 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	6533 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.1 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.3 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1.73 mg/l

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

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8.2.2.2. Skin protection

Skin and body protection:

Majority cotton protective clothing

Hand protection:

EN 511. cold-insulating 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. EN 133

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

SECTION 9: Physical and chemical properties

No additional information available

Physical state	: Gas
Colour	: Colourless.
Appearance	: Press. Gas (Liq.).
Aolecular mass	: 122.1 g/mol
Ddour	: slightly ethereal.
Ddour threshold	: Not available
Aelting point	: Not applicable
Freezing point	: Not applicable
Boiling point	: -16.87 °C
Flammability	: Non flammable.
Explosive properties	: Not explosive material according to EC criteria
Dxidising properties	: Non oxidizing material according to EC criteria
ower explosion limit	: Not available
Jpper explosion limit	: Not available
Flash point	: Not applicable.
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
ЪН	: Not applicable
/iscosity, kinematic	: 9.205 mm²/s
/iscosity, dynamic	: 0.011 Pa·s 10^-3 (25°C, 1.013 bar)
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
/apour pressure	: 4.59 bar (25°C)
/apour pressure at 50°C	: 9.22 bar
Critical pressure	: 35.34
Density	: 1.195 g/cm³
Relative density	: Not applicable
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Critical temperature

: 112.36 °C

9.2.2. Other safety characteristics

No additional information available

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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

Under certain temperature and pressure conditions may form a flammable mixture in the presence of air. Avoid high temperatures. Avoid naked flame.

10.5. Incompatible materials

Do not use joint paste that may contain peroxides. 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. Halogenated compounds.

11.1. Information on hazard classe	s as defined in Regulation (EC) No 1272/2008	
Acute toxicity (oral) Acute toxicity (dermal)	: Not classified : Not classified	
Acute toxicity (derman) Acute toxicity (inhalation)	: Not classified	
Trans-1,3,3,3-Tetrafluoroprop-1-en		
LC50 Inhalation - Rat [ppm]	> 207000 ppm/4h	
(2E)-1,1,1,4,4,4-hexafluorobut-2-en	ne (66711-86-2)	
LC50 Inhalation - Rat [ppm]	> 25400 ppm	
1,1,1,2,3,3,3-heptafluoropropane (4	431-89-0)	
LC50 Inhalation - Rat [ppm]	> 788696 ppm/4h	
Skin corrosion/irritation	: Not classified	
	pH: Not applicable	
Additional information	: Contact with the liquid causes frostbite	
(2E)-1,1,1,4,4,4-hexafluorobut-2-en	ne (66711-86-2)	
рН	7.4 (20°C)	
Serious eye damage/irritation	: Not classified	
	pH: Not applicable	
Additional information	: Contact with the liquefied gas may cause severe ocular lesions	
(2E)-1,1,1,4,4,4-hexafluorobut-2-en	ne (66711-86-2)	
рН	7.4 (20°C)	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
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STOT-repeated exposure :	Not classified
Trans-1,3,3,3-Tetrafluoroprop-1-ene (29118-24	1-9)
NOAEC (inhalation, rat, gas, 90 days)	5000 ppmv/6h/day
Aspiration hazard :	Not applicable
Solstice® N71 (R-471)	
Viscosity, kinematic	9.205 mm²/s
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	
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 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 %

11.2.2. Other information

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 : Harmful to aquatic life with long lasting effects. (chronic)			
Trans-1,3,3,3-Tetrafluoroprop-1-ene (29118-24	-9)		
LC50 - Fish [1]	> 117 mg/l (96 Hours)		
EC50 - Crustacea [1]	> 160 mg/l 48 Hours (Daphnia magna)		
NOEC chronic crustacea	> 160 mg/l (48h)		
NOEC chronic algae	> 170 mg/l (72h)		
(2E)-1,1,1,4,4,4-hexafluorobut-2-ene (66711-86-2)			
LC50 - Fish [1]	1.78 mg/l (Gobiocypris rarus)		
EC50 - Crustacea [1]	92.9 mg/l 48 Hours (Daphnia magna)		
EC50 72h - Algae [1]	14.4 mg/l (Pseudokirchneriella subcapitata)		
NOEC chronic fish	0.131 mg/l (Gobiocypris rarus)		
NOEC chronic algae	6.92 mg/l 72 Hours (Pseudokirchneriella subcapitata)		
1,1,1,2,3,3,3-heptafluoropropane (431-89-0)			
LC50 - Fish [1] > 100 mg/l (brachydanio rerio)			
LC50 - Fish [2]	> 81.8		
EC50 - Crustacea [1]	> 200 mg/l (Daphnia magna)		
EC50 72h - Algae [1]	> 114 mg/l (Pseudokirchnerella subcapitata)		
NOEC chronic fish	10 mg/l		

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12.2. Persistence and degradability			
Solstice® N71 (R-471)			
ersistence and degradability Rapidly degradable			
Trans-1,3,3,3-Tetrafluoroprop-1-ene (29118-24-9)			
Persistence and degradability Not readily biodegradable.			
(2E)-1,1,1,4,4,4-hexafluorobut-2-ene (66711-86-2)			
Persistence and degradability Not readily biodegradable.			
1,1,1,2,3,3,3-heptafluoropropane (431-89-0)			
Persistence and degradability Not readily biodegradable, {0} % biodegradation after {1} days, Half-life in air : {0} y.			
12.3. Bioaccumulative potential			
Trans-1,3,3,3-Tetrafluoroprop-1-ene (29118-24	-9)		
Partition coefficient n-octanol/water (Log Pow) 1.6			
(2E)-1,1,1,4,4,4-hexafluorobut-2-ene (66711-86-2)			
Partition coefficient n-octanol/water (Log Pow) 2.5 (40 °C)			
1,1,1,2,3,3,3-heptafluoropropane (431-89-0)			
Partition coefficient n-octanol/water (Log Pow)	2.11		
Partition coefficient n-octanol/water (Log Kow)	0.83		
12.4. Mobility in soil			

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	(2E)-1,1,1,4,4,4-hexafluorobut-2-ene (66711-86-2), 1,1,1,2,3,3,3-heptafluoropropane (431- 89-0)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	(2E)-1,1,1,4,4,4-hexafluorobut-2-ene (66711-86-2), 1,1,1,2,3,3,3-heptafluoropropane (431- 89-0)
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	
	ODP (R-11=1)=0. Ozone depletion factor GWP = 148

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.

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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

ADR	IMDG	ΙΑΤΑ
14.1. UN number or ID number	I	
UN 3163	UN 3163	UN 3163
14.2. UN proper shipping name	·	
LIQUEFIED GAS, N.O.S. (Trans-1,3,3,3- Tetrafluoroprop-1-ene ; (2E)-1,1,1,4,4- hexafluorobut-2-ene ; 1,1,1,2,3,3,3- heptafluoropropane)	LIQUEFIED GAS, N.O.S. (Trans-1,3,3,3- Tetrafluoroprop-1-ene ; (2E)-1,1,1,4,4- hexafluorobut-2-ene ; 1,1,1,2,3,3,3- heptafluoropropane)	Liquefied gas, n.o.s. (Trans-1,3,3,3- Tetrafluoroprop-1-ene ; (2E)-1,1,1,4,4,4- hexafluorobut-2-ene ; 1,1,1,2,3,3,3- heptafluoropropane)
Transport document description		
UN 3163 LIQUEFIED GAS, N.O.S. (Trans- 1,3,3,3-Tetrafluoroprop-1-ene ; (2E)- 1,1,1,4,4,4-hexafluorobut-2-ene ; 1,1,1,2,3,3,3- heptafluoropropane), 2.2, (C/E)	UN 3163 LIQUEFIED GAS, N.O.S. (Trans- 1,3,3,3-Tetrafluoroprop-1-ene ; (2E)- 1,1,1,4,4,4-hexafluorobut-2-ene ; 1,1,1,2,3,3,3- heptafluoropropane), 2.2	UN 3163 Liquefied gas, n.o.s. (Trans-1,3,3,3 Tetrafluoroprop-1-ene ; (2E)-1,1,1,4,4,4- hexafluorobut-2-ene ; 1,1,1,2,3,3,3- heptafluoropropane), 2.2
14.3. Transport hazard class(es)		
2.2	2.2	2.2
2	2	2
14.4. Packing group	1	
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		
4.6. 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
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, 392
Limited quantities (IMDG)	: 120 ml
EmS-No. (Fire)	: F-C
EmS-No. (Spillage)	: S-V

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Air transport

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)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

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			
Section	Changed item	Change	Comments
3	Additional information	Added	

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Indication of changes			
Section Changed item Change Comments			
9	Physico-chemical hazard data	Modified	

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:		
Aquatic Chronic 2	Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
H280	Contains gas under pressure; may explode if heated.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
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.