

#### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 SDS Reference Number: 100123500 Revision date: 11/15/2024 Supersedes version of: 1/30/2023 Version: 8.0

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

#### 1.1. Product identifier

Product form	: Substance
Trade name	: Solstice® yf (R-1234yf)
Name	: 2,3,3,3-Tetrafluoroprop-1-ene
EC-No.	: 468-710-7
CAS-No.	: 754-12-1
REACH registration No.	: 01-0000019665-61
Product code	: 100123500

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

#### **Relevant identified uses**

Use of the substance/mixture

: Refrigerant

Other

Climalife Hongrie Kft.

#### 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 <u>ContactFDS@climalife.dehon.com</u> **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 Villányi út 47 1118 Budapest Hungary T (36) 23 431 660 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 ContactFDS@climalife.dehon.com 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

#### Other

Galco s.a/n.v. Avenue Carton de Wiart, 79 1090 BRUSSELS Belgium

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T 00 41 32 727 36 00, F 00 41 32 727 36 19 ContactFDS@climalife.dehon.com

Other Climalife Asia Corporation Room 302-A82, No.3, Building 1509, Xin Zhen Road, 201101 Shanghai , Minhang District China T +86 21 6442 3972 , F +86 21 6442 3952 ContactFDS@climalife.dehon.com Other Teknalys Middle East FZCO B34BS33O203, Jebel Ali Freezone Dubai United Arab Emirates T 00 32 2 421 01 84 , F 00 32 2 421 01 84 / 00 32 2 425 38 12 <u>ContactFDS@climalife.dehon.com</u> Other Galco Singapore Branch 135 Cecil Street #10-01 Singapore

ContactFDS@climalife.dehon.com

#### 1.4. Emergency telephone number

ContactFDS@climalife.dehon.com

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]

Flam. Gas 1BH221Press. Gas (Liq.)H280Full 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. 1272/2	008 [CLP]
Hazard pictograms (CLP)	: GHS02
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H221 - Flammable gas. H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (CLP)	<ul> <li>P210 - Keep away from heat, open flames, hot surfaces, sparks. – No smoking.</li> <li>P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.</li> <li>P381 - In case of leakage, eliminate all ignition sources.</li> <li>P403 - Store in a well-ventilated place.</li> </ul>
Extra phrases	: Greenhouse fluorinated gas falling within Kyoto Protocol (GWP = 0,501).

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#### 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	2,3,3,3-Tetrafluoroprop-1-ene (754-12-1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	2,3,3,3-Tetrafluoroprop-1-ene (754-12-1)

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

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.5 1	Substances
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Name	:	2,3,3,3-Tetrafluoroprop-1-ene
CAS-No.	:	754-12-1
EC-No.	:	468-710-7

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,3,3,3-Tetrafluoroprop-1-ene	CAS-No.: 754-12-1 EC-No.: 468-710-7 REACH-no: 01-0000019665- 61	100	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. Rinse with plenty of water. Do not remove clothing (since it may stick to the skin). If skin burns appear, call a doctor immediately.
First-aid measures after eye contact	<ul> <li>Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Consult an eye specialist immediately.</li> </ul>
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 measure	S
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). : Strong water jet.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Flammable gas. Heating will cause a rise in pressure with a risk of bursting. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing.

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Hazardous decomposition products in case of fire	: Thermal decomposition generates : Carbon oxides (CO, CO2), Hydrogen halogenides, Carbonyl halogenides, fluorinated compounds.
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	<ul><li>Use water spray or fog for cooling exposed containers.</li><li>Self-contained breathing apparatus. Complete protective clothing.</li></ul>

#### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Do not attempt to take action without suitable protective equipment. Avoid contact with skin and eyes. Do not breathe smoke. Do not smoke. Evacuate personnel to a safe area. Ventilate spillage area. Stop leak without risks if possible.

#### No additional information available

#### 6.2. Environmental precautions

Product evaporates rapidly when in contact with the air. Prevent entry to sewers and public waters.

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	Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Ensure good ventilation of the work station. Do not pierce or burn, even after use. Use non-sparking tools. 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, incluc	ling any incompatibilities
Storage conditions	: Keep container tight closed. Store : in a cool, well-ventilated area. Store in original container.
7.3. Specific end use(s)	

No additional information available

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

8.1. Control parameters

National occupational exposure and biological limit values

Solstice® yf (R-1234yf) (754-12-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
4240 mg/m <sup>3</sup>		
1000 ppm		
2,3,3,3-Tetrafluoroprop-1-ene (754-12-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
500 ppm (recommended)		

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#### **DNEL and PNEC**

2,3,3,3-Tetrafluoroprop-1-ene (754-12-1)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	186400 mg/m <sup>3</sup>	
Long-term - systemic effects, inhalation	950 mg/m³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	186400 mg/m <sup>3</sup>	
Long-term - systemic effects, inhalation	113.1 mg/m <sup>3</sup>	
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)	1.51 mg/kg dwt	
PNEC sediment (marine water)	0.151 mg/kg dwt	
PNEC (Soil)		
PNEC soil	1.49 mg/kg dwt	

#### 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 : Press. Gas (Liq.). Molecular mass : 114.04 g/mol : slightly ethereal. Odour Odour threshold : Not available Melting point : Not applicable Freezing point : Not applicable

	: -29.49 °C
,	: Flammable gas.

: Not explosive material according to EC criteria.

: Non oxidizing material according to EC criteria.

Lower explosion limit : 6.2 vol %

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Explosive properties

Oxidising properties

Boiling point Flammability

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Upper explosion limit	: 12.3 vol %
Flash point	: Not applicable
Auto-ignition temperature	: 405 °C
Decomposition temperature	: Not available
рН	: Not applicable
Viscosity, kinematic	: Not applicable
Solubility	: Water: 198.2 mg/l (24°C)
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: 2.15
Vapour pressure	: 6.83 bar (25°C)
Vapour pressure at 50°C	: 13.02 bar (50°C)
Critical pressure	: 33.82 bar
Density	: 1092 kg/m³ (25°C)
Relative density	: 4
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable
9.2. Other information	

Information with regard to physical hazard classe	s		
Critical temperature	:	94.7 °C	
Other safety characteristics			
VOC content	:	100 %	

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

#### 10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous polymerization.

#### **10.4. Conditions to avoid**

Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Container under pressure. Do not drill or burn even after use. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

Do not use joint paste that may contain peroxides. React in contact of alkali metals, Light metals. zinc. Magnesium. Strong oxidizing agents.

#### **10.6. Hazardous decomposition products**

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Hydrogen fluoride. 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 2,3,3.3-Tetrafluoroprop-1-ene (754-12-1)

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Skin corrosion/irritation	: Not classified
	pH: Not applicable
Additional information	: Contact with the liquid causes frostbite
Serious eye damage/irritation	: Not classified
	pH: Not applicable
Additional information	: Contact with the liquefied gas may cause severe ocular lesions
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
2,3,3,3-Tetrafluoroprop-1-ene (754-12-1)	
NOAEL (subacute, dermal, 28 days)	> mg/kg bodyweight/day
NOAEL (subacute, dermal, animal/male, 28 days)	> mg/kg bodyweight/day
Aspiration hazard	: Not applicable

#### 11.2. Information on other hazards

#### Endocrine disrupting properties

Adverse health effects caused by endocrine	: The substance is not included in the list established in accordance with Article 59(1) of
disrupting properties	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

SECTION 12: Ecological information	
12.1. Toxicity	
(acute)	Not classified
2,3,3,3-Tetrafluoroprop-1-ene (754-12-1)	
LC50 - Fish [1]	> 197 mg/l Test organisms (species): Cyprinus carpio
LC50 - Fish [2]	33 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	65 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	> 2.5 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	> 15.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	15.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	2.7 mg/l Test organisms (species): Cyprinus carpio Duration: '28 d'
12.2. Persistence and degradability	
Solstice® yf (R-1234yf) (754-12-1)	

## Persistence and degradability Not established.

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2,3,3,3-Tetrafluoroprop-1-ene (754-12-1)		
Persistence and degradability	Not readily biodegradable.	
12.3. Bioaccumulative potential		
Solstice® yf (R-1234yf) (754-12-1)		
Partition coefficient n-octanol/water (Log Pow)	2.15	
2,3,3,3-Tetrafluoroprop-1-ene (754-12-1)		
Partition coefficient n-octanol/water (Log Pow)	2.15	
	1	

### 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	2,3,3,3-Tetrafluoroprop-1-ene (754-12-1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	2,3,3,3-Tetrafluoroprop-1-ene (754-12-1)
12.6. Endocrine disrupting properties	
endocrine disrupting properties	The substance is not 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.
12.7. Other adverse effects	
	ODP (R-11=1)=0. GWP (CO2=1/100 years) = 0,501

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. Refer to manufacturer or supplier for information on recovery or recycling.	
Ecological waste information	: Must not be discharged to atmosphere. Refer to manufacturer or supplier for information or recovery or recycling.	

#### **SECTION 14: Transport information**

# ADR IMDG IATA ADR IMDG IATA 14.1. UN number or ID number UN 3161 UN 3161 UN 3161 UN 3161 UN 3161 14.2. UN proper shipping name LIQUEFIED GAS, FLAMMABLE, N.O.S. (2,3,3,3-Tetrafluoroprop-1-ene) LIQUEFIED GAS, FLAMMABLE, N.O.S. (2,3,3,3-Tetrafluoroprop-1-ene) Liquefied gas, flammable, n.o.s. (2,3,3,3-Tetrafluoroprop-1-ene)

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ADR	IMDG	ΙΑΤΑ
ransport document description		
UN 3161 LIQUEFIED GAS, FLAMMABLE, N.O.S. (2,3,3,3-Tetrafluoroprop-1-ene), 2.1, (B/D)	UN 3161 LIQUEFIED GAS, FLAMMABLE, N.O.S. (2,3,3,3-Tetrafluoroprop-1-ene), 2.1	UN 3161 Liquefied gas, flammable, n.o.s. (2,3,3,3-Tetrafluoroprop-1-ene), 2.1
4.3. Transport hazard class(es)	·	
2.1	2.1	2.1
4.4. Packing group	1	
Not applicable	Not applicable	Not applicable
I4.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-D EmS-No. (Spillage): S-U	Dangerous for the environment: No
No supplementary information available		
4.6. Special precautions for user		
Overland transport Classification code (ADR) pecial provisions (ADR) imited quantities (ADR) ank code (ADR) ransport category (ADR) lazard identification number (Kemler No.) Orange plates	: 2F : 274, 662 : 0 : PxBN(M) : 2 : 23 : 23 : <b>23</b> : <b>23</b> : <b>23</b> : <b>B/D</b>	
AC code ransport by sea pecial provisions (IMDG) imited quantities (IMDG)	: 2YE : 274 : 0	
<b>Lir transport</b> CA Limited quantities (IATA) CA limited quantity max net quantity (IATA) CA packing instructions (IATA) CA max net quantity (IATA) CA o packing instructions (IATA) CA o max net quantity (IATA) CA o max net quantity (IATA) CA o max net quantity (IATA)	: Forbidden : Forbidden : Forbidden : Forbidden : 200 : 150kg : A1	

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**

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

EU restriction list (REA	J restriction list (REACH Annex XVII)		
Reference code	Applicable on		
40.	Solstice® yf (R-1234yf) ; 2,3,3,3-Tetrafluoroprop-1-ene		

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

Not listed on REACH Annex XIV (Authorisation List)

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

Not listed on the REACH Candidate List

#### PIC Regulation (Prior Informed Consent)

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

#### POP Regulation (Persistent Organic Pollutants)

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

#### Ozone Regulation (1005/2009)

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

#### 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
	Issue date	Added
	Revision date	Modified
	Supersedes	Modified
	Adverse health effects caused by endocrine disrupting properties	Added
2.2	Extra phrases	Added
2.2	Precautionary statements (CLP)	Modified

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Indication of changes	anges		
Section	Changed item	Comments	
3	Composition/information on ingredients	Modified	
8	IOEL TWA	Added	
8	IOEL TWA	Added	
9	VOC content	Added	
9	Molecular mass	Modified	
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.

Full text of H- and EUH	ull text of H- and EUH-statements:	
Flam. Gas 1B	Flammable gases, Category 1B	
H221	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.