

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

#### 1.1. Product identifier

Product form	: Substance
Name	: R-32
Chemical name	: 1,1-Difluoromethane (R-32)
EC-No.	: 200-839-4
CAS-No.	: 75-10-5
REACH registration No.	: 01-0000019665-61
Product code	: 100003200
Formula	: CH2F2

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

##### Relevant identified uses

Use of the substance/mixture	: Refrigerant
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#### 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](mailto:ContactFDS@climalife.dehon.com)

##### Other

Climalife Kft Budepesta sucursală București Romania  
Bulevardul Hristo Botev, Nr. 28,  
Biroul NR 4, Modulul I  
București Sectorul 3  
Romania  
[ContactFDS@climalife.dehon.com](mailto: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](mailto: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](mailto: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  
[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

##### Other

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

##### Other

Climalife Hongrie Kft.  
Villányi út 47  
1118 Budapest  
Hungary  
T (36) 23 431 660  
[ContactFDS@climalife.dehon.com](mailto: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](mailto: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](mailto:ContactFDS@climalife.dehon.com)

##### Other

Dehon Service Nederland 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](mailto: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](mailto:ContactFDS@climalife.dehon.com)

##### Other

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

# R-32

## Safety Data Sheet

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

Switzerland  
T 00 41 32 727 36 00, F 00 41 32 727 36 19  
[ContactFDS@climalife.dehon.com](mailto: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](mailto:ContactFDS@climalife.dehon.com)

Belgium  
T 00 32 2 421 01 84, F 00 32 2 421 01 84 / 00 32 2 425 38 12  
[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)  
**Other**  
Galco Singapore Branch  
135 Cecil Street #10-01  
Singapore  
[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

**Other**  
Teknaly Middle East FZCO  
B34BS33O203, Jebel Ali Freezone  
Dubai  
United Arab Emirates  
[ContactFDS@climalife.dehon.com](mailto: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]

Flam. Gas 1B H221  
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) :



GHS02

Signal word (CLP) : Danger  
Hazard statements (CLP) : H221 - Flammable gas.  
H280 - Contains gas under pressure; may explode if heated.  
Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
P381 - In case of leakage, eliminate all ignition sources.  
P403 - Store in a well-ventilated place.

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Extra phrases : Greenhouse fluorinated gas falling within Kyoto Protocol (GWP=675).

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : R-32  
CAS-No. : 75-10-5  
EC-No. : 200-839-4

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Difluoromethane	CAS-No.: 75-10-5 EC-No.: 200-839-4 REACH-no: 01-2119471312-47	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 : 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 : Water spray, dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media : 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. Hazardous gas/vapours are formed in the event of decomposition (see section 10).

### 5.3. Advice for firefighters

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

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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 : 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.

#### 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". 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 : 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.

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

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

Storage conditions : Keep container tight closed. Store : in a cool, well-ventilated area. Store in original container.

Incompatible materials : Strong oxidizing agents. alkali metals. Alkaline earth metals.

Packaging materials : Recommended materials Carbon steel. Unsuitable materials: Alloys containing more than 2% magnesium.

#### 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

##### Difluoromethane (75-10-5)

##### EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	2200 mg/m <sup>3</sup> (recommended)
	1000 ppm (recommended)

##### DNEL and PNEC

##### Difluoromethane (75-10-5)

##### DNEL/DMEL (Workers)

Long-term - systemic effects, inhalation	7035 mg/m <sup>3</sup>
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Difluoromethane (75-10-5)	
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	750 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.142 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.534 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	: Liquefied gas.
Molecular mass	: 52.02 g/mol
Odour	: slightly ethereal.
Odour threshold	: Not available
Melting point	: -136.81 °C
Freezing point	: Not applicable
Boiling point	: -51.65 °C
Flammability	: Flammable gas.
Explosive properties	: Not explosive material according to EC criteria.
Oxidising properties	: Non oxidizing material according to EC criteria.
Lower explosion limit	: 12.7 vol %
Upper explosion limit	: 33.4 vol %
Flash point	: < -50 °C
Auto-ignition temperature	: 530 °C (1.018 hPa)
Decomposition temperature	: > 250 °C
pH	: Not applicable
Viscosity, kinematic	: Not applicable
Solubility	: Insoluble in water. Soluble in alcohols. Water: 1.6 g/l (25°C)
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 16.9 bar (25°C)
Vapour pressure at 50°C	: 31.4 bar
Critical pressure	: 57.82 bar
Density	: 0.959 g/cm³ (25°C)
Relative density	: Not applicable
Relative vapour density at 20°C	: 2.987

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Particle characteristics : Not applicable

### 9.2. Other information

#### Information with regard to physical hazard classes

Critical temperature : 78.1 °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

Strong oxidizing agents. alkali metals. Alkaline earth metals. Metallic powders. Metallic salts.

### 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

#### Difluoromethane (75-10-5)

LC50 Inhalation - Rat [ppm]	> 520000 ppm/4h
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Skin corrosion/irritation : Not classified  
pH: Not applicable

Additional information : Contact with the liquid causes frostbite

#### Difluoromethane (75-10-5)

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

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

#### Difluoromethane (75-10-5)

pH	N/A
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Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

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

### Difluoromethane (75-10-5)

NOAEC (inhalation, rat, gas, 90 days) 50000 ppmv/6h/day

Aspiration hazard : Not applicable

### 11.2. Information on other hazards

#### Endocrine disrupting properties

Adverse health effects caused by 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

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

### 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 names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	> 114 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	313 mg/l

### 12.2. Persistence and degradability

#### R-32 (75-10-5)

Persistence and degradability Not established.

### Difluoromethane (75-10-5)

Persistence and degradability	Rapidly degradable
Biodegradation	5 %

### 12.3. Bioaccumulative potential

#### Difluoromethane (75-10-5)

Partition coefficient n-octanol/water (Log Pow) 0.21

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

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### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by 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

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

#### R-32 (75-10-5)

Other information	GWP (CO2=1/100 years) = 675
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#### Difluoromethane (75-10-5)

Other information	GWP (CO2=1/100 years) = 675
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## 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 on recovery or recycling.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
<b>14.1. UN number or ID number</b>			
UN 3252	UN 3252	UN 3252	UN 3252
<b>14.2. UN proper shipping name</b>			
DIFLUOROMETHANE (REFRIGERANT GAS R 32)	DIFLUOROMETHANE (REFRIGERANT GAS R 32)	Difluoromethane	DIFLUOROMETHANE (REFRIGERANT GAS R 32)
<b>Transport document description</b>			
UN 3252 DIFLUOROMETHANE (REFRIGERANT GAS R 32), 2.1, (B/D)	UN 3252 DIFLUOROMETHANE (REFRIGERANT GAS R 32), 2.1	UN 3252 Difluoromethane, 2.1	UN 3252 DIFLUOROMETHANE (REFRIGERANT GAS R 32), 2.1
<b>14.3. Transport hazard class(es)</b>			
2.1	2.1	2.1	2.1
			
<b>14.4. Packing group</b>			
Not applicable	Not applicable	Not applicable	Not applicable



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ADR	IMDG	IATA	RID
<b>14.5. Environmental hazards</b>			
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	Dangerous for the environment: No
No supplementary information available			

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : 2F  
Special provisions (ADR) : 662  
Limited quantities (ADR) : 0  
Tank code (ADR) : PxBN(M)  
Transport category (ADR) : 2  
Hazard identification number (Kemler No.) : 23  
Orange plates :



Tunnel restriction code (ADR) : B/D  
EAC code : 2YE

#### Transport by sea

Limited quantities (IMDG) : 0

#### Air transport

PCA Limited quantities (IATA) : Forbidden  
PCA limited quantity max net quantity (IATA) : Forbidden  
PCA packing instructions (IATA) : Forbidden  
PCA max net quantity (IATA) : Forbidden  
CAO packing instructions (IATA) : 200  
CAO max net quantity (IATA) : 150kg  
Special provisions (IATA) : A1

#### Rail transport

Classification code (RID) : 2F  
Special provisions (RID) : 662  
Limited quantities (RID) : 0  
Tank codes for RID tanks (RID) : PxBN(M)  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE3  
Hazard identification number (RID) : 23

### 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

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

Not listed on REACH Annex XVII

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

Not listed on REACH Annex XIV (Authorisation List)

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### REACH Candidate List (SVHC)

Contains no substance(s) 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 (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

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

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

### VOC Directive (2004/42)

VOC content : 100 %

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### National regulations

Ensure all national/local regulations are observed.

## 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
	Adverse health effects caused by endocrine disrupting properties	Added
3	Composition/information on ingredients	Modified
9	Solubility	Modified
9	VOC content	Added
9	Molecular mass	Added
9	Melting point	Modified
9	Relative vapour density at 20°C	Modified
9	Flash point	Modified
9	Boiling point	Modified
9	Vapour pressure at 50°C	Added
9	Solubility in water	Added
9	Partition coefficient n-octanol/water (Log Pow)	Added
9	Critical pressure	Added
9	Auto-ignition temperature	Added
9.1	Critical temperature	Modified
9.1	Decomposition temperature	Added

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Indication of changes		
Section	Changed item	Comments
12.2	Persistence and degradability	Added
12.2	Biodegradation	Added
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added

Other information

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

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.