

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

1.1. Product identifier

Product form : Mixture
 Name : R-407F (PERFORMAX LT)
 Product code : 100049400

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 sucursalca 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
ContactFDS@climalife.dehon.com

Other

Prochimac SA
 ZI Petits Champs 15
 CH-1400 Yverdon-les-Bains - Switzerland
 T 00 41 32 727 36 00 - F 00 41 32 727 36 19
ContactFDS@climalife.dehon.com

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
ContactFDS@climalife.dehon.com

Other

Dehon nordic service
 Östra Hamngatan 50B 3tr
 41109 GÖTEBORG - Sweden
 T 00 46 44 21 58 80 - F 00 46 44 21 58 80
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
 T 00 32 2 421 01 84 - F 00 32 2 421 01 84 / 00 32 2 425 38 12
ContactFDS@climalife.dehon.com

1.4. Emergency telephone number

Emergency number : +33 (0) 1 72 11 00 03

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| 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 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Press. Gas (Liq.) H280

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Contact with the liquid may cause frostbite and serious damage to eyes.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS04

Signal word (CLP) : Warning
Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (CLP) : P410+P403 - Protect from sunlight. Store in a well-ventilated place.
Extra phrases : Greenhouse fluorinated gas falling within Kyoto Protocol (GWP=1825).

2.3. Other hazards

No additional information available

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

Full text of H-statements: see section 16

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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 | : All extinguishing agents can be used. |
| Unsuitable extinguishing media | : None to our knowledge. If there is a fire close by, use suitable extinguishing agents. |

5.2. Special hazards arising from the substance or mixture

| | |
|------------------|--|
| Explosion hazard | : pressure rise and possible bursting of container. On heating : Toxic and corrosive vapours are released. |
|------------------|--|

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. |
| Protection during firefighting | : Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|--|
| General measures | : Avoid contact with skin and eyes. Remove all sources of ignition. Do not smoke. Evacuate the danger area. Do not breathe smoke. Stop the leak. |
|------------------|--|

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".

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|---|
| Precautions for safe handling | : Avoid breathing mist, vapours. Do not get in eyes, on skin, or on clothing. Ventilation. Vapours are heavier than air and may spread along floors. Under certain temperature and pressure conditions may form a flammable mixture in the presence of air. |
| Hygiene measures | : Do not drink, eat or smoke in the workplace. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|------------------------|--|
| Storage conditions | : Store : in a cool, well-ventilated area, away from any source of heat, away from any source of ignition. |
| Incompatible materials | : Strong oxidizing agents. Alkaline hydroxide. Alkaline earth metals. Finely divided metals (Al, Mg, Zn). |
| 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) |

Difluoromethane (75-10-5)

EU - Indicative Occupational Exposure Limit (IOEL)

| | |
|----------------|------------------------|
| IOEL TWA | 2200 (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) |
| WEL TWA (OEL TWA) [1] | 4240 mg/m ³ |
| 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

Pentafluoroethane (354-33-6)

DNEL/DMEL (Workers)

| | |
|--|-------------------------|
| Long-term - systemic effects, inhalation | 16444 mg/m ³ |
|--|-------------------------|

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| Pentafluoroethane (354-33-6) | |
|--|------------------------|
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, inhalation | 1753 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.1 mg/l |
| PNEC aqua (intermittent, freshwater) | 1 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0.6 mg/kg dwt |

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 |
| Appearance | : Liquefied gas. |
| Colour | : Colourless. |
| Odour | : slightly ethereal. |
| Odour threshold | : No data available |
| pH | : Not applicable |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : -45.5 °C |
| Flash point | : Not applicable |
| Critical temperature | : 86.05 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |

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| | |
|---|--|
| Flammability (solid, gas) | : Non flammable. |
| Vapour pressure | : 11.4 bar (20°C) |
| Vapour pressure at 50 °C | : 24.3 bar (50°C) |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 1.139 g/cm ³ (20°C) |
| Solubility | : Insoluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : Not explosive material according to EC criteria. |
| Oxidising properties | : Non oxidizing material according to EC criteria. |
| Explosive limits | : No data available |

9.2. Other information

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 toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

Pentafluoroethane (354-33-6)

| | |
|-----------------------------|---------------|
| LC50 Inhalation - Rat [ppm] | 800000 ppm/4h |
|-----------------------------|---------------|

Difluoromethane (75-10-5)

| | |
|-----------------------------|-----------------|
| LC50 Inhalation - Rat [ppm] | > 520000 ppm/4h |
|-----------------------------|-----------------|

1,1,1,2-Tetrafluoroethane (811-97-2)

| | |
|-----------------------------|-----------------|
| LC50 Inhalation - Rat [ppm] | > 500000 ppm/4h |
|-----------------------------|-----------------|

| | |
|---------------------------|--|
| Skin corrosion/irritation | : Not classified |
| Additional information | : pH: Not applicable : Contact with the liquid causes frostbite |

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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 |
| 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 |

Difluoromethane (75-10-5)

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

| | |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

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 |

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) |
| 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. |
|-------------------------------|---|

12.3. Bioaccumulative potential

Pentafluoroethane (354-33-6)

| | |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 1.48 |
|---|------|

Difluoromethane (75-10-5)

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

1,1,1,2-Tetrafluoroethane (811-97-2)

| | |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 1.06 |
|---|------|

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12.4. Mobility in soil

Pentafluoroethane (354-33-6)

Partition coefficient n-octanol/water (Log K_{oc}) 1.3 – 1.7

1,1,1,2-Tetrafluoroethane (811-97-2)

Partition coefficient n-octanol/water (Log K_{oc}) 1.5

12.5. Results of PBT and vPvB assessment

Component

| | |
|--------------------------------------|---|
| 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 |
| 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 |

12.6. Other adverse effects

Other adverse effects : Ozone depletion factor ODP (R-11=1) = 0. Total global warming potential (GWP) : 1774.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Methods of disposal of packaging. Reuse or recycle following decontamination. Destroy at an authorised site.
Additional information : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

SECTION 14: Transport information



In accordance with ADR / IMDG / IATA / RID

| ADR | IMDG | IATA | RID |
|---|--|--|--|
| 14.1. UN number | | | |
| UN 3163 | UN 3163 | UN 3163 | UN 3163 |
| 14.2. UN proper shipping name | | | |
| LIQUEFIED GAS, N.O.S. (1,1,1,2-Tetrafluoroethane ; Pentafluoroethane ; Difluoromethane) | LIQUEFIED GAS, N.O.S. (1,1,1,2-Tetrafluoroethane ; Pentafluoroethane ; Difluoromethane) | Liquefied gas, n.o.s. (1,1,1,2-Tetrafluoroethane ; Pentafluoroethane ; Difluoromethane) | LIQUEFIED GAS, N.O.S. (1,1,1,2-Tetrafluoroethane ; Pentafluoroethane ; Difluoromethane) |
| Transport document description | | | |
| UN 3163 LIQUEFIED GAS, N.O.S. (1,1,1,2-Tetrafluoroethane ; Pentafluoroethane ; Difluoromethane), 2.2, (C/E) | UN 3163 LIQUEFIED GAS, N.O.S. (1,1,1,2-Tetrafluoroethane ; Pentafluoroethane ; Difluoromethane), 2.2 | UN 3163 Liquefied gas, n.o.s. (1,1,1,2-Tetrafluoroethane ; Pentafluoroethane ; Difluoromethane), 2.2 | UN 3163 LIQUEFIED GAS, N.O.S. (1,1,1,2-Tetrafluoroethane ; Pentafluoroethane ; Difluoromethane), 2.2 |
| 14.3. Transport hazard class(es) | | | |
| 2.2 | 2.2 | 2.2 | 2.2 |

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| ADR | IMDG | IATA | RID |
|---|---|---|---|
|  |  |  |  |

14.4. Packing group

| | | | |
|----------------|----------------|----------------|----------------|
| Not applicable | Not applicable | Not applicable | Not applicable |
|----------------|----------------|----------------|----------------|

14.5. Environmental hazards

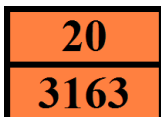
| | | | |
|-----------------------------------|---|-----------------------------------|-----------------------------------|
| Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No |
|-----------------------------------|---|-----------------------------------|-----------------------------------|

No supplementary information available

14.6. Special precautions for user

Overland transport

| | |
|---|-----------------|
| Classification code (ADR) | : 2A |
| Special provisions (ADR) | : 274, 660, 662 |
| Limited quantities (ADR) | : 120ml |
| Tank code (ADR) | : PxBN(M) |
| Transport category (ADR) | : 3 |
| Hazard identification number (Kemler No.) | : 20 |
| Orange plates | : |



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

Transport by sea

| | |
|---------------------------|----------|
| Special provisions (IMDG) | : 274 |
| Limited quantities (IMDG) | : 120 ml |
| EmS-No. (Fire) | : F-C |
| EmS-No. (Spillage) | : S-V |

Air transport

| | |
|--|-------------|
| PCA Limited quantities (IATA) | : Forbidden |
| PCA limited quantity max net quantity (IATA) | : Forbidden |
| PCA packing instructions (IATA) | : 200 |
| PCA max net quantity (IATA) | : 75kg |
| CAO packing instructions (IATA) | : 200 |
| CAO max net quantity (IATA) | : 150kg |

Rail transport

| | |
|---------------------------------------|-----------------|
| Classification code (RID) | : 2A |
| Special provisions (RID) | : 274, 660, 662 |
| Limited quantities (RID) | : 120ml |
| Tank codes for RID tanks (RID) | : PxBN(M) |
| Transport category (RID) | : 3 |
| Colis express (express parcels) (RID) | : CE3 |
| Hazard identification number (RID) | : 20 |

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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

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.

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.