

Safety Data Sheet

According to Regulation EC No. 1907/2006

Kältespray 02 GP

Date of issue/Date of revision: 18.02.2025

en / EU - Version 2.0

SECTION 1. Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Trade name: Kältespray 02 GP
UFI: E3PJ-141Q-XR05-GV7C

1.2 Use of the substance/preparation: Aerosol propellant gas.

1.3 Company/undertaking identification

Company name: Gößl + Pfaff GmbH
Street: Münchener Str. 13
Place: 85123 Karlskron/Brautlach
Telephone: +49 (0) 8450 / 932-0
Fax.: +49 (0) 8450 / 932-13
Contact person: Management: Mr. Gößl, Mr. Pfaff
E-Mail: info@goessl-pfaff.de
Internet: www.goessl-pfaff.de
Responsible Department: Management

1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0) 6132-84463

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

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

Aerosol 3; H229 Pressurised container: May burst if heated.

2.2 Label elements

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

Signal word: WARNING

H229 Pressurised container: May burst if heated.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

2.3 Other hazards

PBT/vPvB

No information.

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Additional information

Inhalation may cause central nervous system effects. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Rapid evaporation of the liquid gas may cause frostbite.

SECTION 3. Composition/information on ingredients

3.1 Substances

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances

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trans-1,3,3,3-Tetrafluor-1-propen	- 471-480-0 - 01-0000019758-54	100	Press. Gas; H280	/	U
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3.2 Mixtures

For substances see 3.1.

Notes for substances

U	When put on the market gases have to be classified as 8Gases under pressure9, in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).
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SECTION 4. First aid measures

4.1 Description of first aid measures

General notes

When in doubt or if feeling unwell seek medical assistance.

Show the safety data sheet and label to the physician.

Person giving first aid should properly protect himself.

No action shall be taken involving any personal risk or without suitable training.

Following inhalation

Leave contaminated area - breathe fresh air. If symptoms develop and persist, seek medical attention.

Following skin contact

If frostbite occurs, flush with lukewarm water. DO NOT USE HOT WATER, contact doctor. Do not rub the frostbite.

Cover it with a sterile gauze and seek medical advice.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Seek medical help.

Following ingestion

Not likely.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

Coughing, sneezing, nasal discharge, labored breathing.

Following skin contact

Rapid evaporation of the liquid may cause frostbite.

Following eye contact

May cause frostbite.

Following ingestion

Not likely.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray.

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Fire extinguishing powder.

Foam.

Carbon dioxide (CO₂). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Not available.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated:

Carbon monoxide (CO)

Carbon dioxide (CO₂).

Hydrogen fluoride (HF).

Carbonyl halides.

Halogenated compounds.

5.3 Advice for firefighters

Protective actions

Exposure to the waste products may be dangerous to health. In case of fire or heating do not breathe fumes/vapours. In a fire or if heated, a pressure increase will occur and the container may burst. Cool the endangered containers with water spray. Vapors are heavier than air and may travel along ground. In enclosed areas: risk of suffocation! No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing (BS EN 469) for firefighters (including helmets (BS EN 443), protective boots (BS EN 15090) and gloves (BS EN 659)) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

Prevent the release of extinguishing media into the environment. Contaminated extinguishing agents must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Precautionary measures

Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Ensure adequate ventilation. Avoid skin contact with leaking liquid (danger of frostbite).

Emergency procedures

Prevent access to unprotected personnel. Prevent access to unauthorised personnel. Avoid contact with skin and eyes. Do not breathe vapour or mist.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. The product evaporates readily.

6.3 Methods and material for containment and cleaning up

For containment

Close the source of the release only if it is without risk.

For cleaning up

Do not direct water at spill or source of leak. Leave the product to evaporate. Collect the spray cans and hand them over to an authorized waste disposal contractor. Dispose in accordance with applicable regulations (see Section 13).

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Other information

No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation. Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or incandescent material. Vapours and air form explosive mixtures.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

No information.

Other measures

No information.

Advice on general occupational hygiene

Keep working clothes separately. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Store in accordance with local regulations. Keep in tightly closed container. Keep in cool and well ventilated area. Protect from open fire, heat and direct sunlight. Storage temperature < 50°C. Keep away from oxidising substances. Keep away from food, drink and animal feeding stuffs.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

Do not store in unlabelled containers.

Storage temperature

No information.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

No information.

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Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	Value
(1E)-1,3,3,3-tetrafluoroprop-1-ene	Worker	inhalative	Long term systemic effects	/	3902 mg/m ³
(1E)-1,3,3,3-tetrafluoroprop-1-ene	Consumer	inhalative	Long term systemic effects	/	830 mg/m ³

PNEC values

For product

No information.

For components

Name	Exposure route	Remark	Value
(1E)-1,3,3,3-tetrafluoroprop-1-ene	fresh water	/	0.1 mg/l

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Handle in accordance with good industrial hygiene and safety practice. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with eyes and skin. Do not breathe vapours/aerosols. Keep away from foodstuffs, beverages and feed.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

Personal protective equipment

Eye and face protection

Safety goggles (BS EN ISO 16321-1:2022).

Hand protection

When working with a liquid phase use gloves (BS EN 511:2006) - danger of frostbite. Check protective gloves prior to each use for their proper condition. At the first signs of wear and tear, change the gloves immediately.

Appropriate materials

Skin protection

Cotton protective clothing and shoes that cover the entire foot (BS EN ISO 20345:2022+A1:2024).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (BS EN 136) with filter A2-P2 (BS EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

Thermal hazards

No information.

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Environmental exposure controls

Substance/mixture related measures to prevent exposure

Adopt good working practices, avoiding release of the product in the environment.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

No information.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Important health, safety and environmental information

Physical state	liquid
Shape	aerosol
Colour	colourless
Odour	characteristic ether like
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	-19 °C
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	368 °C
Decomposition temperature	No information.
pH	Neutrall
Viscosity	No information.
Solubility (Water)	0.373 g/l
Partition coefficient n-octanol/water (log value)	1.6
Vapour pressure	4271 hPa at 20 °C 11152 hPa at 54.4 °C
Density / weight	No information.
Relative vapour density	4 (Air = 1)
Particle characteristics	No information.

9.2 Other information

Information with regard to physical hazard classes

No information.

Other safety characteristics

Weight organic solvents	0 g/l (VOC)
	0 % (VOC)

SECTION 10. Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions. Stable under normal conditions.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Do not expose to sunlight or temperatures above 50 ° C. High pressure.

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10.5 Incompatible materials

Alkali metal.

10.6 Hazardous decomposition products

Hazardous combustion products, see Section 5 of the safety data sheet.

SECTION 11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
(1E)- 1,3,3,3 tetrafluoropro-p- inhalation 1-ene	Inhalation	LCO	rat	4h	> 207000 ppm	OECD 403	/

(b) Skin corrosion/irritation

For components

Name	Species	Time	Result	Method	Remark
(1E)- 1,3,3,3 tetrafluoroprop- inhalation 1-ene	rabbit	/	Non-irritant	OECD 404	/

(c) Serious eye damage/irritation

No information.

(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	Result	Method	Remark
(1E)- 1,3,3,3 tetrafluoroprop- inhalation 1-ene	-	human	/	Non sensitising.	/	/

(e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	Result	Method	Remark
(1E)- 1,3,3,3 tetrafluoroprop- inhalation 1-ene	in-vitro mutagenicity	Human (lymphocytes)	/	Negative.	OECD 473	Chromosome aberration assay
(1E)- 1,3,3,3 tetrafluoroprop- inhalation 1-ene	/	/	/	Negative.	Ames test	/
(1E)- 1,3,3,3 tetrafluoroprop- inhalation 1-ene	in-vivo mutagenicity	mouse	/	Negative.	OECD 474	Inhalation

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

For components

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
(1E)- 1,3,3,3 tetrafluoroprop- inhalation 1-ene	Reproductive toxicity	NOEL	rat	/	> 20000 ppm	/	OECD 416	2-generation study, inhalation
(1E)- 1,3,3,3 tetrafluoroprop- inhalation 1-ene	Reproductive toxicity	NOEL (F1)	rat	/	> 20000 ppm	/	OECD 416	2-generation study, inhalation

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(1E)- 1,3,3,3-tetrafluorprop-inhalation1-ene	Reproductive toxicity	NOEC	rat	/	> 15000 ppm	/	OECD 414	Inhalation
(1E)- 1,3,3,3-tetrafluorprop-inhalation1-ene	Reproductive toxicity	NOAEC	rat	/	> 15000 ppm	/	OECD 414	Inhalation

Summary of evaluation of the CMR properties

No information.

(h) STOT-single exposure

No information.

(i) STOT-repeated exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	Organ	Value	Result	Method	Remark
(1E)- 1,3,3,3-tetrafluorprop-inhalation1-ene	Repeated dose toxicity	NOEL	rat	90 days	sub-chronic	/	5000 ppm	/	OECD 413	Inhalation

(j) Aspiration hazard

No information.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

SECTION 12. Ecological information

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
(1E)-1,3,3,3-tetrafluorprop-1-ene	LCo	> 117 mg/L	96 h	fish	Cyprinus carpio	OECD 203	static test
(1E)-1,3,3,3-tetrafluorprop-1-ene	NOEC	> 170 mg/L	72 h	algae	/	OECD 201	Growth rate
(1E)-1,3,3,3-tetrafluorprop-1-ene	NOEC	> 170 mg/L	72 h	algae	/	OECD 201	Biomass
(1E)-1,3,3,3-tetrafluorprop-1-ene	EC50	> 160 mg/L	48 h	crustacea	Daphnia magna	OECD 202	static test

Chronic (long-term) toxicity

No information.

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
(1E)-1,3,3,3-tetrafluorprop-1-ene	aerobic	/	/	not readily biodegradable	/	/

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12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

For product

Value	Temperature °C	pH	Concentration	Method
1.6	/	/	/	/

For components

Name	Value	Temperature °C	pH	Concentration	Method
(1E)-1,3,3,3-tetrafluorprop-1-ene	1.6	/	/	/	/

Bioconcentration factor (BCF)

No information.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

12.7 Other adverse effects

No information.

12.8 Additional information

For product

Product is not classified as hazardous for environment.

Handle in accordance with good working practices so that the product is not released into the environment.

For components

(1E)-1,3,3,3-tetrafluorprop-1-ene

Bioaccumulation is not expected (log Pow <4).

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Dispose of in accordance with applicable waste disposal regulation.

Disposal must be made according to official regulations:

deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Dispose of in accordance with applicable waste disposal regulation.

Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

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Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14. Transport information

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2 UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS
14.3 Transport hazard class(es)			
21	2	2	2
			
ADR/RID	IMDG	IATA	ADN
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities: 1L Special provisions 190, 327, 344, 625 Packing Instructions P207, LPO2 Special packing provisions PP87, RR6, L2 Transport category Tunnel restriction code: (E) Classification code: 5A	Limited quantities 1 L EmS F-D, S-U	Limited Quantity, Packing instructions (Ltd Qty, Pkg Inst): Y204 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg): 30 kg G Packing Instructions (Pkg Inst): 204 Maximum Net Quantity/Package (Max Net Qty/Pkg): 30 kg Special provisions A98, A145, A167, A802	Limited quantities 1 L
14.7 Maritime transport in bulk according to IMO instruments			
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

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SECTION 15. Regulatory information

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

Special instructions

No information.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. Other information

Replaces version 1.1 from 02.06.2017

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
 ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
 ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 CEN - European Committee for Standardisation
 C&L - Classification and Labelling
 CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
 CAS# - Chemical Abstracts Service number
 CMR - Carcinogen, Mutagen, or Reproductive Toxicant
 CSA - Chemical Safety Assessment
 CSR - Chemical Safety Report
 DMEL - Derived Minimal Effect Level
 DNEL - Derived No Effect Level
 DPD - Dangerous Preparations Directive 1999/45/EC
 DSD - Dangerous Substances Directive 67/548/EEC
 DU - Downstream User
 EC - European Community
 ECHA - European Chemicals Agency
 EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
 EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
 EEC - European Economic Community
 EINECS - European Inventory of Existing Commercial Substances
 ELINCS - European List of notified Chemical Substances
 EN - European Standard
 EQS - Environmental Quality Standard
 EU - European Union
 Euphrac - European Phrase Catalogue
 EWC - European Waste Catalogue (replaced by LoW – see below)
 GES - Generic Exposure Scenario
 GHS - Globally Harmonized System
 IATA - International Air Transport Association
 ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
 IMDG - International Maritime Dangerous Goods
 IMSBC - International Maritime Solid Bulk Cargoes
 IT - Information Technology
 IUCLID - International Uniform Chemical Information Database
 IUPAC - International Union for Pure Applied Chemistry
 JRC - Joint Research Centre

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Kow - octanol-water partition coefficient
 LC50 - Lethal Concentration to 50 % of a test population
 LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
 LE - Legal Entity
 LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
 LR - Lead Registrant
 M/I - Manufacturer / Importer
 MS - Member States
 MSDS - Material Safety Data Sheet
 OC - Operational Conditions
 OECD - Organization for Economic Co-operation and Development
 OEL - Occupational Exposure Limit
 OJ - Official Journal
 OR - Only Representative
 OSHA - European Agency for Safety and Health at work
 PBT - Persistent, Bioaccumulative and Toxic substance
 PEC - Predicted Effect Concentration
 PNEC(s) - Predicted No Effect Concentration(s)
 PPE - Personal Protection Equipment
 (Q)SAR - Qualitative Structure Activity Relationship
 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
 RIP - REACH Implementation Project
 RMM - Risk Management Measure
 SCBA - Self-Contained Breathing Apparatus
 SDS - Safety data sheet
 SIEF - Substance Information Exchange Forum
 SME - Small and Medium sized Enterprises
 STOT - Specific Target Organ Toxicity
 (STOT) RE - Repeated Exposure
 (STOT) SE - Single Exposure
 SVHC - Substances of Very High Concern
 UN - United Nations
 vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H280 Contains gas under pressure; may explode if heated.

The information of this MSDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this MSDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.