Safety Data Sheet

According to Regulation EC No. 1907/2006

Kältespray 02 GP

Date of issue/Date of revision: 02.06.2017 Version 1.1

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

1.1 Identification of the substance

or preparation: Kältespray 02 GP

1.2 Use of the substance/preparation: see procuct name

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 +49 (0) 8450 / 932-0

Opening times

Monday till Thursday: 8.00 a.m.- 5.00 p.m. Friday: 8.00 a.m.- 3.00 p.m.

2. Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Gases under pressure: Liquefied gas

Hazard Statements:

Contains gas under pressure; may explode if heated.

2.2. Label elements

Regulation (EC) No. 1272/2008

Signal word: Warning

Hazard statements

H229 Pressurised container: May burst if heated.

Precautionary statements

P102 Keep out of reach of children. P103 Read label before use.

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.

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

2.3. Other hazards

Refrigerated liquefied gas. Contact with the product can cause cold burns or frostbite.

3. Composition/information on ingredients

3.1. Substances

Hazardous components

CAS No	Chemical name							
	EC No	Index No	REACH No					
	Classification according to Regulati	on (EC) No. 1272/2008 [CLP]	•					
29118-24-9	trans-1,3,3,3-Tetrafluoroprop-1-ene							
	471-480-0		01-0000019758-54-					
	Liquefied gas; H280	•						

Full text of H and EUH statements: see section 16.

29118-24-9	Fanson 3.3.3-Tetrafluoroprop-1-ene	Index No	REACH No	100 %	İ
	4244446ation according to Regulati	фп (EC) No. 1272/2008 [CLP] 01-00	99919858549758-54-		
29118-24-9	trans-1,3,3,3-Tetrafluoroprop-1-ene			100 %	
Eull text of H a	nd 7 H statements: see section, 16.	16	01-0000019758-54-		Page 2 of 7

4 First aid measures as; H280

Full text of H and EUH statements: see section 16.

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

After contact with skin

Take off contaminated clothing and wash it before reuse. Treat frozen body-parts appropriately. In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

After ingestion

Exposure route not applicable

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Treat frozen body-parts appropriately. Do not give adrenaline or other stimulants.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry extinguishing powder, Foam, Carbon dioxide (CO2) Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

High power water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Hydrogen fluoride

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

No special measures are necessary.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not pierce or burn, even after use.

Advice on protection against fire and explosion

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

Further information on handling

Heating causes rise in pressure with risk of bursting.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep in a cool, well-ventilated place



Advice on storage compatibility

Do not store together with: Oxidising agent

7.3. Specific end use(s)

see product name

8. Exposure controls/personal protection

DNEL/DMEL values 8.1. Control parameters CAS No Substance

CAS No	Substance							
DNEL/DMEL V	/alues		Evnosure route		Effect		Value	
CAS No	Substance							
DNEL type	trans-1,5,5,5-retrandoroprop-1-ene	Exo	osure route	Effec	:i	Valuei		
	long torm	11	inholotion		a. mtomio l		20023	i I
	trans-1,3,3,3-Tetrafluoroprop-1-ene		mnaiation		systemic i		8 311 mn/m°	
Worker DNEL,	long-term	linha	alation	syste	mio	3902	ng/m³	
Consumer DNE	EL, long-term	inha	alation	syste	emic	830 m	g/m³	

8.2. Exposure controls

Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Eye/face protection

Wear eye protection/face protection. Suitable eye protection: Eye glasses with side protection DIN EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. DIN EN 374
Suitable gloves type: Gloves with long cuffs, heat insulations to chemicals of the protective gloves.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Suitable respiratory protection apparatus: Self-contained respirator (breathing apparatus) (DIN EN 133)

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: like: Ether

Test method

pH-Value: not applicable

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

-19 °C

Flash point:

not applicable

-19 °C

not determined

Sustaining combustion: No data available

Flammability

Solid: not applicable
Gas: not applicable

Explosive properties

not applicable

Lower explosion limits:

Upper explosion limits:

Inot applicable
Ignition temperature:

not applicable

Auto-ignition temperature

Solid: not applicable Gas: 368 °C

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

 Vapour pressure:
 4271 hPa

 (at 20 °C)
 4271 hPa

 Vapour pressure:
 10800 hPa

 (at 50 °C)
 10800 hPa



Density (at 20 °C): 1,19 g/cm³
Water solubility: insoluble (at 20 °C)

Solubility in other solvents

not determined

Partition coefficient: 2,01
Viscosity / dynamic: not applicable
Vapour density: not determined
Evaporation rate: not determined
Solvent content: not applicable

9.2. Other information

Solid content: not applicable

10. Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Gases/vapours, toxic.

11. Toxicological information

14/151Nformat	iopalesies in articol	ects_						
CASCHIE toxi	c tynemical name							
29118-245gd	or available data the cl	opilicatiene	çriteria are	not met. Species		Source		Method
CAS No	Chemical name							
23110-2 1 -3	Exposure route	Dokes		Species	Source		Method	OECD 402
CAS No	Chemical name							
	inhalative (4 h) vapour Exposure route	LC 50	>965	Rat Species	Source		REGRA	03
	trans-1,3,3,3-Tetrafluoroprop-1-ene							
Irritation a Based	nd corrosivity Innalative (4 h) vapour pn available data, the cl	LC50	>965 criteria are	Rat not met.			OECD 4	.03

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience

Other observations

Can cause frostbite. Inhalation causes narcotic effects/intoxication.

12.1. Toxicity

12. Ecological information

12.1. Toxicity

The product is not: Ecotoxic.



CAS No 29118-24-9	Chemical name	Chemical name								
29118-24-9			1 2 2 2 2 2 2	•	•					
	trans-1.3.3.3- letrafluoropr Aquatic foxicity	ob-1-ene Dose	[h] [d] Species	Source	Method					
29118-24-9	trans-1,3,3,3-Tetrafluorop	rop-1-ene								
CAS No	Acute fish toxicity Chemical name	H_650 \>417	→96 d Cxprinus carpio	П						
0,10,110		1 55650 >>1670	[h] 40 23 D Soloma Straigha (Big	Source	Method					
29118-24-9	trans-1,3,3,3-Tetrafluoropro		17 F - 10 [1] Gap							
	Acute crustacea toxicity	LC50 > 160 LC50 >117	48 пірарппіа magna (віс 96 h Cyprinus carnio (Water fiea (Сримон Сагр)							
The property of the property o	Chemical name	d. s ErC50 >170 mg/l	72 h Selenastrum capricornutum							
CAS No	Chemical name	EC50 > 160 mg/l	48 h Daphnia hagna (Big water flea)	l d leaur						
29118-24-9 2 2 Persiste	Wethod 3 3-Tetrafluoropr	op-1-ene tial (ODP):	Value 0	d Soi	urce					
CAS No	Chemical name	1			-					
2.3. Bioaccu	Investigative potential siesar warming potential of the state of the s	tial (GWP):	Value 6	d Source						
29118-24-9	trans-1,3,3,3-Tetrafluoropro									
CAS No	Ozone depletion potenti	al (ODP):	0		Log Pow					
grittion coe	Trid elektri-veraine inwater	al (GWP): oprop-1-ene	6		2,01					
2AS Bloaccu	mu kiliyeriseteletiki				Log Pow					
29118-24-9 The pr	trans-1,3,3,3-letrafluol oduct has not been teste	roprop-1-ene			2,01					
Partition coef	fficient n-octanol/water of PBT and vPvB asses	sment								
CAS No _{The pr}	oduct has not been teste	d.			Log Pow					

The product has not been tested.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

13. Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; gases in pressure containers (including halons) containing hazardous

substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

14. Transport information

Land transport (ADR/RID)

14.1. UN number:UN 195014.2. UN proper shipping name:AEROSOLS

 14.3. Transport hazard class(es):
 2

 14.4. Packing group:

 Hazard label:
 2.2



Classification code:

Special Provisions: 190 327 344 625

Excepted quantity: 1 L
Excepted quantity: E0
Transport category: 3
Tunnel restriction code: E

Inland waterways transport (ADN)

 14.1. UN number:
 UN 1950

 14.2. UN proper shipping name:
 AEROSOLS



14.3. Transport hazard class(es): 2
14.4. Packing group: -

Hazard label:



Classification code: 5A

Special Provisions: 190 327 344 625

Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number:UN 195014.2. UN proper shipping name:AEROSOLS

 14.3. Transport hazard class(es):
 2.2

 14.4. Packing group:

 Hazard label:
 2.2



Special Provisions: 63, 190, 277, 327, 344, 381, 959

Limited quantity: 1000 mL Excepted quantity: E0 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1950

14.2. UN proper shipping name: AEROSOLS, non-flammable

 14.3. Transport hazard class(es):
 2.2

 14.4. Packing group:

 Hazard label:
 2.2



Special Provisions: A98 A145 A167 A802

Limited quantity Passenger: 30 kg G
Passenger LQ: Y203
Excepted quantity: E0

IATA-packing instructions - Passenger:203IATA-max. quantity - Passenger:75 kgIATA-packing instructions - Cargo:203IATA-max. quantity - Cargo:150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No special measures are necessary.

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

not applicable

15. Regulatory information

$\underline{\textbf{15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture}$

EU regulatory information

2010/75/EU (VOC): 100 % (1190 g/l) 2004/42/EC (VOC): 100 % (1190 g/l)

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

Additional information

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC, 2008/47/EC

Aerosol directive (75/324/EEC). National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile

work protection guideline' (94/33/EC).

Water contaminating class (D): 3 - highly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.



16. Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations.

The product has no impact on the ozone layer and has only a minor impact on the greenhouse effect, making it neither affected by the Kyoto Protocol nor by F-Gas Regulation (No. 842/2006 / EC).

