

According to Regulation (EC) No 1907/2006 as amended by 2020/878 requirements
GB

Freezer Spray

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

1.1. Product identifier

Trade name

Freezer Spray

Article No.

1500003431_1500003432

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

Relevant identified uses

Freezer Spray.

1.3. Details of the supplier of the safety data sheet

Supplier

ROTHENBERGER (UK) LIMITED

Address

2 KINGSTONE PARK
HENSON WAY, KETTERING

NN16 8PX NORTHANTS
United Kingdom

Telephone

01536 310 300

Email

sales@rothenberger.co.uk

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Other company

ROTHENBERGER Werkzeuge GmbH

Address

Industriestraße 7

D-65779 Kelkheim

Germany

Telephone

+49 (0) 61 95 / 800 - 0

Email

info@rothenberger.com

Fax

+49 (0) 6195 / 800 - 3500

1.4. Emergency telephone number

111

Available outside office hours

Yes

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Aerosol, Hazard category 3

Hazard statements

H229

Description

Not considered to be a significant hazard due to the small quantities used.

Aerosol containers can explode when heated, due to excessive pressure build-up.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Signal word

Warning

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Hazard statements

H229 Pressurised container: May burst if heated.

Precautionary statements

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.

P260 Do not breathe vapour/ spray.

P271 Use only outdoors or in a well-ventilated area.

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

P501 Dispose of contents/container to in accordance with local regulations.

More information

Supplemental label information: Contains HFO-1234ze (CAS number: 29118-24-9).

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
HFO-1234ze	29118-24-9 471-480-0 01-0000019758-54-XXXX -	60 - 100%	Press. Gas - Liquefied gas	H280 - -	-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Move affected person to fresh air at once.

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Inhalation

Move affected person to fresh air at once. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.

Skin contact

Rinse mouth thoroughly with water.

Eye contact

Rinse with water. Get medical attention if any discomfort continues.

Ingestion

Rinse with water. Get medical attention if any discomfort continues.

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

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product is not flammable. Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved.

5.2. Special hazards arising from the substance or mixture

Containers can burst violently or explode when heated, due to excessive pressure build-up. Decomposes on contact with flames and hot surfaces to produce hydrofluoric acid and fluorophosgene. Containers can burst violently or explode when heated, due to excessive pressure build-up.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

Other

Measures in case of fire

Warn firefighters that aerosols are involved. Containers close to fire should be removed or cooled with water.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Not considered to be a significant hazard due to the small quantities used.

6.3. Methods and material for containment and cleaning up

VENTILATE/EVAPORATE.

6.4. Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Read and follow manufacturer's recommendations.

7.2. Conditions for safe storage, including any incompatibilities

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 degrees Centigrade. Do not pierce or burn, even after use.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Appropriate engineering controls

This product must not be handled in a confined space without adequate ventilation.

Personal protection: Do not eat, drink or smoke when using this product.

Eye / face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

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Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin protection

Not relevant.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

Other

Hygiene measures

Good personal hygiene procedures should be implemented. Clean equipment and the work area every day.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Aerosol

Colour

Colourless.

Odour

No characteristic odour.

Melting point / freezing point

-108 °C

Boiling point or initial boiling point and boiling range

-19 °C

Flammability

No data available

Lower and upper explosion limit

No data available

Flash point

No data available

Auto-ignition temperature

368 °C

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Decomposition temperature

No data available

pH

Neutral.

Kinematic viscosity

No data available

Solubility

0.373 g/l

Partition coefficient n-octanol/water

1.6

Vapour pressure

4.192 hPa @ 20°C 10.998 hPa @ 54.4°C

Density and/or relative density

No data available

Relative density

1.206

Relative vapour density

No data available

VOC %

0 g/l

Particle characteristics

No data available

Information on basic physical and chemical properties

Vapour density: 4.

9.2. Other information

Information given is applicable to the major ingredient.

Molecular weight: 102.4 g/mol.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at normal ambient temperatures and when used as recommended.

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10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Does not decompose when used and stored as recommended.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Keep away from oxidising materials, heat and flames.

10.6. Hazardous decomposition products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

SECTION 11: Toxicological information

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

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

Germ cell mutagenicity

Product / Substance name CAS / EC no.	Result	Exposure route
HFO-1234ze 29118-24-9 / 471-480-0	Chromosome aberration, Human lymphocytes.: Negative. Ames test: Negative.	Genotoxicity - in vitro
HFO-1234ze 29118-24-9 / 471-480-0	Gene mutation, (Mammalian bone-marrow cytogenetic test, chromosomal analysis), Mouse, Micronucleus., Inhalation: Negative.	Genotoxicity - in vivo

Reproductive toxicity

Product / Substance name CAS / EC no.	Exposure route	Value / Dose	Species
HFO-1234ze 29118-24-9 / 471-480-0	Reproductive toxicity - fertility Two-generation study - NOAEL Inhalation	>20000 ppm	Rat F1, P
HFO-1234ze	Reproductive toxicity - devel-	15000 ppm	Rat

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Product / Substance name CAS / EC no.	Exposure route	Value / Dose	Species
29118-24-9 / 471-480-0	opment Maternal toxicity:, NOEC Developmental toxicity:, NOAEC Inhalation		

Aspiration hazard

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

Routes of exposure

Inhalation.

Target organs: Respiratory system, lungs.

Symptoms related to the physical, chemical and toxicological characteristics

Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

Toxicity in case of inhalation

May cause respiratory system irritation.

Toxicity in case of skin contact

Skin irritation should not occur when used as recommended.

Toxicity in case of eye contact

Irritating to eyes.

Toxicity in case of ingestion

No specific health hazards known.

11.2. Information on other hazards

Other information

Acute and chronic health hazards

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

No data on possible environmental effects have been found.

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Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Remark
HFO-1234ze 29118-24-9 / 471- 480-0	LC ₀	>207000 ppm	4 hours	Rat	Acute toxicity - ter- restrial
HFO-1234ze 29118-24-9 / 471- 480-0	NOEC Repeated Dose Tox- icity	5000 ppm	90 days	Rat	Acute toxicity - ter- restrial

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
HFO-1234ze 29118-24-9 / 471-480-0	LC ₀	>117 mg/l	96 hours	Cyprinus carpio (Com- mon carp)

Acute algae toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
HFO-1234ze 29118-24-9 / 471- 480-0	NOEC	>170 mg/l	72 hours	Algae	Biomass ., Growth rate

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
HFO-1234ze 29118-24-9 / 471-480-0	EC ₅₀	>160 mg/l	48 hours	Daphnia magna

12.2. Persistence and degradability

Persistence and degradability

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Product / Substance name CAS / EC no.	Result
HFO-1234ze 29118-24-9 / 471-480-0	Aerobic Not readily biodegradable.

12.3. Bioaccumulative potential
Bioaccumulative potential

Product / Substance name CAS / EC no.	LogKow / LogPow
HFO-1234ze 29118-24-9 / 471-480-0	1,6

12.4. Mobility in soil
Mobility
Not known.

12.5. Results of PBT and vPvB assessment
No data available

12.6. Endocrine disrupting properties
No data available

12.7. Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Disposal considerations
Do not puncture or incinerate, even when empty.
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number
1950

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14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

AEROSOLS

IMDG proper shipping name

AEROSOLS

IATA proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

Label

ADR/RID/ADN



2.2

IMDG



2.2

IATA



Non-Flammable Gas

ADR / RID Class

2

ADR / RID Classification code

5F

IMDG Class

2

IATA Class

2.1

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ADN Class

2

ADN Class Code

5F

14.4. Packing group

Not applicable

14.5. Environmental hazards

No.

IMDG Marine Pollutant

No.

14.6. Special precautions for user

Tunnel restriction code: E

Transport category: 3

IMDG EmS

F-D, S-U

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Other

This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

SECTION 15: Regulatory information

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

National regulations

Approved Classification and Labelling Guide (Sixth edition) L131.

EH40/2005 Workplace exposure limits.

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

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Other regulations, limitations and legal regulations

REGULATION (EU) No 517/2014 on fluorinated greenhouse gases.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Changes to previous revision

Supplemental information added.

Phrase meaning

Aerosol 3 - Aerosol, Hazard category 3

Press. Gas - Liquefied gas - Gases under pressure, Liquefied gas

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

Other

Manufacturer's notes

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.