

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

RoFill Super 100

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

1.1. Product identifier

Trade name

RoFill Super 100

Article No.

35840

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

Relevant identified uses

Fuel gas.

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 1

Hazard statements

H222

Description

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008: Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.

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.

P211 Do not spray on an open flame or other ignition source.

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

Vapours can form an explosive mixture with air. This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The components of this product are not considered to be a PBT.

The components of this product are not considered to be a 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
Petroleum gas, Petroleum gases, liquefied	68476-85-7 270-704-2 01-2119486557-22 649-202-00-6	0 - <100%	Flam. Gas 1A, Press. Gas - Liquefied gas	H220, H280 - -	K, U, S [3], [2], [1], [4]

Substance additional information

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

Remove affected person from danger area, lay him down. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

Inhalation

Remove to fresh air, keep patient warm and at rest. In case of persisting adverse effects consult a physician.

Skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists. In case of frostbite, rinse with plenty of water. Do not remove clothing.

Eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

Ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. When swallowed seek medical aid immediately and show the physician the packaging or the label of the packaging.

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

Frostbite; Shortness of breath; Light-headedness; Nausea; Unconsciousness; Coughing; Drowsiness.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide; Dry chemical extinguisher; Water spray jet.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Toxic gases/vapours; Carbon dioxide (CO₂); Carbon monoxide (CO); In case of fire: danger of pressure build up, which could result in container rupture. Formation of explosive mixtures with air is possible. Vapours are heavier than air and may spread along floors.

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5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing. Run-off water from fire fighting must not be discharged into drains or enter surface water. Drums can explode from steam pressure. Cool endangered containers with water spray jet. Containers close to fire should be transferred to a safe place. Do not inhale explosion and/or combustion byproducts.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Evacuate all unprotected personnel from the danger zone. Keep away from ignition sources.

For emergency responders: Personal protective equipment (PPE) - see section 8.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Ensure adequate ventilation. When collected, handle material as described under the section heading "Disposal considerations". Pick up with absorbent material (e.g., sand, kieselguhr, acid binder, universal binder, sawdust).

6.4. Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good ventilation at the work area (local exhaust ventilation, if necessary). Open and handle container with care. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No sparking tools should be used. Take precautionary measures against static charges.

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General hygiene

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight..

Recommended storage temperature: Value < 50 °C.

Requirements for storage rooms and vessels: Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

Incompatible products: Substances to be avoided, see section 10. Do not store together with: oxidizing substances; spontaneously combusting substances

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Source	Remark	Year
Petroleum gas, Petroleum gases, liquefied	68476-85-7 270-704-2	1000 1750	1250 2180	-	Carc (only applies if LPG contains more than 0.1% of buta-1,3-diene)	-

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Eye / face protection

Safety glasses with side protection shield (EN 166).

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Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and anti-static properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material: nitrile rubber.

Appropriate Material: neoprene.

Other skin protection

Chemical-resistant work clothes.

Respiratory protection

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

liquified gas

Colour

colourless

Odour

characteristic

Melting point / freezing point

No data available

Boiling point or initial boiling point and boiling range

0 - -42 °C

Flammability

No data available

Lower and upper explosion limit

1.9 - 9.6 %

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Flash point

-60 °C

Method

-60 - -96 °C

Auto-ignition temperature

> 287 °C

Decomposition temperature

No data available

pH

No data available

Kinematic viscosity

No data available

Solubility

No data available

Water solubility

< 0.1 g/l

Partition coefficient n-octanol/water

No data available

Vapour pressure

1200 - 7500 hPa

Method

20 °C

Density and/or relative density

0.5 - 0.58 g/cm³

Relative vapour density

1.55 - 2.08

Method

Air = 1

Particle characteristics

No data available

9.2. Other information

No data available

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product undergoes nitration and chlorination reactions.

10.2. Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3. Possibility of hazardous reactions

Risk of formation of explosive gas mixtures in air.

10.4. Conditions to avoid

Heat, naked flames or other ignition sources, electrostatic charge and discharge, formation of vapours/aerosols. Temperatures > 50°C.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

None if stored, handled and transported properly. In case of fire: see section 5.

SECTION 11: Toxicological information

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

Aspiration hazard

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

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

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12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The components of this product are not considered to be a PBT.

The components of this product are not considered to be a vPvB.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

Other

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer. Compressed gas packaging under pressure. Do not open by force. Do not heat above 50°C. Dispose of compressed gas packagings only if completely discharged. Do not burn empty compressed gas packagings. Do not pierce, cut or weld uncleaned containers.

SECTION 14: Transport information

14.1. UN number

1950

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

AEROSOLS, flammable

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IMDG proper shipping name

AEROSOLS

IATA proper shipping name

Aerosols, flammable

14.3. Transport hazard class(es)

Label

ADR/RID/ADN



2.1

IMDG



2.1

IATA



2.1

ADR / RID Class

2

ADR / RID Classification code

5F

IMDG Class

2 (See SP63)

IATA Class

2.1

ADN Class

2

ADN Class Code

5F

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14.4. Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Tunnel restriction code: D

Transport category: 2

IMDG EmS

F-D, S-U

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

National regulations

No data available

Other regulations, limitations and legal regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Changes to previous revision

2, 3, 8, 9, 10, 15.

References to key literature and data sources

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case. National Threshold Limit Values of the corresponding countries as amended in each case. Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164. The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

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Phrase meaning

Aerosol 1 - Aerosol, Hazard category 1

Flam. Gas 1A - Flammable gases, hazard category 1A

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

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

Other

Manufacturer's notes

This information is based on our present knowledge and experience. The safety data sheet describes products with a view to safety requirements. It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Additional information references

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