Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.09.2026 *Version number 4 (replaces version 3)* *Revision: 17.09.2026*

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

· ***1.1 Product identifier***

· ***Trade name:*** **Gas-Refill / MP Gas-Refill**

· ***Article number:***
14080 - Gas-Refill 90 ml
21829 - Gas-Refill 300 ml
18214080 - MP Gas-Refill 90 ml
18221829 - MP Gas-Refill 300ml

· ***UFI:*** Not applicable. As a UVCB substance, not subject to Annex VIII notification.

· ***1.2 Relevant identified uses of the substance or mixture and uses advised against***
No further relevant information available.

· ***Application of the substance / the mixture*** Gas for lighters

· ***1.3 Details of the supplier of the safety data sheet***

· ***Manufacturer/Supplier:***
Fackelmann GmbH + Co. KG
Sebastian-Fackelmann-Str. 6
D-91217 Hersbruck
Germany
Tel: +49 (0)9151-811 153
Fax: +49 (0)9151-811 294
www.fackelmann.de

· ***Informing department:*** Phone: 09151-811 153

· ***1.4 Emergency telephone number:***
Poisoning Information Center Fribourg
Breisacher Strasse 86b
D-79106 Freiburg
Germany
Tel.: +49-(0)761-19240
giftinfo@uniklinik-freiburg.de
(Information in German and English)

SECTION 2: Hazards identification

· ***2.1 Classification of the substance or mixture***

· ***Classification according to Regulation (EC) No 1272/2008***

GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

· ***Additional information:***
The full text of the classification and labelling elements mentioned is given in Section 16.

· ***2.2 Label elements***

· ***Labelling according to Regulation (EC) No 1272/2008***
The product is classified and labelled according to the CLP regulation.

· ***Hazard pictograms***

GHS02

· ***Signal word*** Danger

· ***Hazard statements***
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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· ***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.
· ***Additional information:***
Buildup of explosive mixtures possible without sufficient ventilation.
· ***Labelling of packages where the contents do not exceed 125 ml***
· ***Hazard pictograms***

GHS02

· ***Signal word*** Danger
· ***Hazard statements***
H222-H229 Extremely flammable aerosol. 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.
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***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** Not applicable
· ***vPvB:*** Not applicable
· ***Determination of endocrine-disrupting properties***
The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

· ***3.2 Mixtures***
· ***Description:*** Mixture consisting of the following components.

· ***Dangerous components:***		
CAS: 68476-85-7 EINECS: 270-704-2 Index number: 649-202-00-6 Reg.nr.: 01-2119485911-31-X	Petroleum gases, liquefied Flam. Gas 1A, H220; Press. Gas (Comp.), H280	≤ 100%

· ***Additional information*** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· ***4.1 Description of first aid measures***
· ***General information*** No special measures required.
· ***After inhalation***
Provide fresh air. Keep victims quiet and warm.
Seek medical treatment in case of complaints.
· ***After skin contact***
In cases of freeze burns, rinse with plenty of water. Do not remove clothing.
After frost burns flush at least 15 minutes with water. Cover sterile, consult doctor.
· ***After eye contact***
Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.
Remove contact lenses if possible.

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Call a doctor immediately.
· ***After swallowing*** Swallowing is not considered to be a possible way of exposure.
· ***4.2 Most important symptoms and effects, both acute and delayed***
No further relevant information available.
· ***4.3 Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

SECTION 5: Firefighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents***
CO_2, extinguishing powder or water spray. Fight larger fires with water spray.
· ***For safety reasons unsuitable extinguishing agents*** Water with a full water jet.
· ***5.2 Special hazards arising from the substance or mixture***
Can form explosive gas-air mixtures.
Can be released in case of fire:
Carbon monoxide (CO)
· ***5.3 Advice for firefighters***
· ***Protective equipment:***
Use a breathing apparatus that is independent of circulating air when being in closed rooms.
· ***Additional information***
Remove goods in stock from incendiary zone, if possible.
Use water to keep fire exposed containers cool.
Only extinguish escaping burning gas if absolutely necessary. Spontaneous explosive re-ignition is possible.

SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Ensure adequate ventilation
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Keep away from sources of ignition - No smoking.
· ***For non-emergency personnel***
Evacuate personnel to safe area.
Accidental releases pose a serious fire or explosion hazard. Immediately contact emergency personnel.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Keep away from ignition sources
· ***For emergency responders*** Wear protective equipment. Keep unprotected persons away.
· ***6.2 Environmental precautions:*** Prevent material from reaching sewage system, holes and cellars.
· ***6.3 Methods and material for containment and cleaning up:*** Ensure adequate ventilation.
· ***6.4 Reference to other sections***
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling***
Store in cool, dry place in tightly closed containers.
Keep away from heat and direct sunlight.
Avoid contact with eyes and skin.
Use only in well ventilated areas.
· ***Information about protection against explosions and fires:***
Beware: Container is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use.
Keep ignition sources away - Do not smoke.

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· ***7.2 Conditions for safe storage, including any incompatibilities***
· ***Storage***
· ***Requirements to be met by storerooms and containers:***
Store in cool location.
Store only in the original container.
· ***Information about storage in one common storage facility:***
Keep away from food, drink and animal feeding stuffs.
· ***Further information about storage conditions:*** Store in cool, dry conditions in a well ventilated area.
· ***7.3 Specific end use(s)*** No further relevant information available.

*
SECTION 8: Exposure controls/personal protection

· ***8.1 Control parameters***
· ***Components with limit values that require monitoring at the workplace:***
WEL: workplace exposure limit
OEL: Occupational Exposure Limit

CAS: 68476-85-7 Petroleum gases, liquefied	
WEL (Great Britain)	Short-term value: 2180 mg/m³, 1250 ppm Long-term value: 1750 mg/m³, 1000 ppm Carc (if LPG contains > 0.1% of buta-1.3-diene)
CAS: 106-97-8 butane, pure	
WEL (Great Britain)	Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

· ***8.2 Exposure controls***
· ***Individual protection measures, such as personal protective equipment***
· ***General protective and hygienic measures***
The usual precautionary measures should be adhered to general rules for handling chemicals.
· ***Breathing equipment:***
Not required when used as intended.
In case of intensive exposure use breathing equipment being independent of ambient air.
Filter AX.
· ***Hand protection*** No chemical-protective gloves required.
· ***Material of gloves*** Not required.
· ***Penetration time of glove material*** Not required.
· ***Eye/face protection*** Safety glasses recommended if possibility of liquid splashes exists.

*
SECTION 9: Physical and chemical properties

· ***9.1 Information on basic physical and chemical properties***	
· ***General Information***	
· ***Colour:***	Colourless
· ***Odour:***	Characteristic
· ***Melting point/freezing point:***	Not determined
· ***Boiling point or initial boiling point and boiling range***	-42 - 0 °C
· ***Lower and upper explosion limit***	
· ***Lower:***	1.9 Vol %
· ***Upper:***	9.6 Vol %
· ***Flash point:***	-96 - -60 °C
· ***Auto-ignition temperature:***	> 287 °C
· ***SADT***	
· ***pH***	Not determined
· ***Viscosity:***	
· ***Kinematic viscosity***	Not determined

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· ***dynamic:***	Not determined
· ***Solubility***	
· ***Water:***	< 0.1 g/l
· ***Partition coefficient n-octanol/water (log value)***	Not determined
· ***Vapour pressure at 20 °C:***	1200 - 7500 hPa
· ***Density and/or relative density***	
· ***Density***	0.5 - 0.58 g/cm³
· ***Relative gas density***	1.55 - 2.08 (Luft = 1)
· ***9.2 Other information***	
· ***Appearance:***	
· ***Form:***	Liquefied gas
· ***Important information on protection of health and environment, and on safety.***	
· ***Explosive properties:***	Product is not explosive. However, formation of explosive gas-/air mixtures is possible.
· ***Information with regard to physical hazard classes***	
· ***Explosives***	Void
· ***Flammable gases***	Void
· ***Aerosols***	Extremely flammable aerosol. Pressurised container: May burst if heated.
· ***Oxidising gases***	Void
· ***Gases under pressure***	Void
· ***Flammable liquids***	Void
· ***Flammable solids***	Void
· ***Self-reactive substances and mixtures***	Void
· ***Pyrophoric liquids***	Void
· ***Pyrophoric solids***	Void
· ***Self-heating substances and mixtures***	Void
· ***Substances and mixtures, which emit flammable gases in contact with water***	Void
· ***Oxidising liquids***	Void
· ***Oxidising solids***	Void
· ***Organic peroxides***	Void
· ***Corrosive to metals***	Void
· ***Desensitised explosives***	Void

*
SECTION 10: Stability and reactivity

· ***10.1 Reactivity*** No further relevant information available.
· ***10.2 Chemical stability*** Stable at ambient temperature and under normal conditions of use.
· ***Information on the shelf life*** The product is stable.
· ***Thermal decomposition / conditions to be avoided:***
Risk of container bursting above 50 °C.
Avoid direct sunlight, heat and ignition sources.
· ***10.3 Possibility of hazardous reactions*** Forms explosive gas mixture with air
· ***10.4 Conditions to avoid*** No further relevant information available.
· ***10.5 Incompatible materials:*** Avoid contact with strong oxidizing agents.
· ***10.6 Hazardous decomposition products:*** No dangerous decomposition products known

SECTION 11: Toxicological information

· ***11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008***
· ***Acute toxicity*** Based on available data, the classification criteria are not met.
· ***Primary irritant effect:***
· ***Skin corrosion/irritation*** Based on available data, the classification criteria are not met.

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· ***Serious eye damage/irritation*** Based on available data, the classification criteria are not met.
· ***Respiratory or skin sensitisation*** Based on available data, the classification criteria are not met.
· ***Germ cell mutagenicity*** Based on available data, the classification criteria are not met.
· ***Carcinogenicity*** Based on available data, the classification criteria are not met.
· ***Reproductive toxicity*** 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.
· ***11.2 Information on other hazards***

· ***Endocrine disrupting properties***
None of the ingredients is listed.

* SECTION 12: Ecological information

· ***12.1 Toxicity***
· ***Aquatic toxicity:*** No further relevant information available.
· ***12.2 Persistence and degradability*** No further relevant information available.
· ***Behaviour in environmental systems:***
· ***Components:***
The product is volatile / gaseous. If released to water the product will rapidly evaporate into the atmosphere. If released to soil the product will rapidly evaporate into the atmosphere. Spillages are unlikely to penetrate the soil.
· ***12.3 Bioaccumulative potential*** Does not accumulate in organisms
· ***12.4 Mobility in soil*** No further relevant information available.
· ***12.5 Results of PBT and vPvB assessment***
· ***PBT:*** Not applicable
· ***vPvB:*** Not applicable
· ***12.6 Endocrine disrupting properties***
The product does not contain substances with endocrine disrupting properties.
· ***12.7 Other adverse effects***
· ***Additional ecological information:***
· ***General notes:*** Generally not hazardous for water.

SECTION 13: Disposal considerations

· ***13.1 Waste treatment methods***
· ***Recommendation***
The waste code numbers mentioned are recommendations based on the probable use of the product.

· ***European waste catalogue***	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing hazardous substances
HP3	Flammable

· ***Uncleaned packagings:***
· ***Recommendation:***
Dispose of packaging according to regulations on the disposal of packagings.
Empty containers must be sent for scrap recycling or reconditioning. Containers that have not been properly emptied are hazardous waste.

* SECTION 14: Transport information

· ***14.1 UN number or ID number***
· ***ADR/RID, IMDG, IATA*** UN1950

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· **14.2 UN proper shipping name**	
· **ADR/RID, IMDG**	AEROSOLS
· **IATA**	AEROSOLS, flammable
· **14.3 Transport hazard class(es)**	
· **ADR/RID**	
· **Class**	2 5F Gases.
· **Label**	2.1
· **IMDG, IATA**	
· **Class**	2 Gases.
· **Label**	2.1
· **14.4 Packing group**	
· **ADR/RID, IMDG, IATA**	Void
· **14.5 Environmental hazards:**	Not applicable
· **14.6 Special precautions for user**	Warning: Gases.
· **Kemler Number:**	-
· **EMS Number:**	F-D,S-U
· **Stowage Code**	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
· **Segregation Code**	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable
· **Transport/Additional information:**	
· **Quantity limitations**	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg
· **ADR/RID**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E0 Not permitted as Excepted Quantity
· **Transport category**	2
· **Tunnel restriction code**	D
· **IMDG**	
· **Limited quantities (LQ)**	1L

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· ***Excepted quantities (EQ)***	Code: E0 Not permitted as Excepted Quantity
· ***UN "Model Regulation":***	UN 1950 AEROSOLS, 2.1

* SECTION 15: Regulatory information

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

· ***Directive 2012/18/EU***
· ***Named dangerous substances - ANNEX I*** None of the ingredients is listed.
· ***Seveso category*** P3a FLAMMABLE AEROSOLS

· ***DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II***
None of the ingredients is listed.

· ***REGULATION (EU) 2019/1148***

· ***Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))***
None of the ingredients is listed.

· ***Annex II - REPORTABLE EXPLOSIVES PRECURSORS***
None of the ingredients is listed.

· ***Regulation (EC) No 273/2004 on drug precursors***
None of the ingredients is listed.

· ***Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors***
None of the ingredients is listed.

· ***National regulations***

· ***Water hazard class:***

· ***Substances of very high concern (SVHC) according to REACH, Article 57***
None of the ingredients is contained.

· ***15.2 Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

* SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
This safety data sheet meets the requirements of Regulation (EU) 2015/830 and 2020/878 amending Annex II of Regulation (EC) 1907/2006.
This data sheet considers labelling requirements of Reglation (EU) 2025/1222 adapting Regulation (EC) No 1272/2008 (23 rd < ATP of the CLP Regulation).

· ***Reasons for alterations*** Reviewing the data
· ***Relevant phrases***
The phrases specified here are no labelling elements for the product but repeat the properties of the ingredients from section 3.
H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.

· ***Department issuing data specification sheet:***

DEKRA This Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
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· ***Date of previous version:*** 02.12.2024
· ***Version number of previous version:*** 3
· ***Abbreviations and acronyms:***
ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
· **** Data compared to the previous version altered.***