

Safety Data Sheet

according to UK REACH Regulation

Spezialgas

Revision date: 25.06.2021

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Spezialgas

CFH No. 52515, 52105

Substance name: Hydrocarbons, C3-4; Petroleum gas
REACH Registration Number: 01-2119486557-22-
CAS No: 68476-40-4
Index No: 649-199-00-1
EC No: 270-681-9
UFI: PNEP-W4XA-T00P-VJG0

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

Fuel

1.3. Details of the supplier of the safety data sheet

Company name: CFH Löt- und Gasgeräte GmbH
Street: Bahnhofstraße 50
Place: D-74254 Offenau
Telephone: +49 (0)7136 9594 0
e-mail: Info@cfh-gmbh.de
Contact person: Torsten Bogesch
e-mail: Info@cfh-gmbh.de
Internet: www.cfh-gmbh.de

Telefax: +49 (0)7136 9594 44

1.4. Emergency telephone number:

+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Flam. Gas 1; H220
Liquefied gas; H280

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Signal word:** Danger**Pictograms:****Hazard statements**

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode 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.

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P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 P381 In case of leakage, eliminate all ignition sources.
 P410+P403 Protect from sunlight. Store in a well-ventilated place.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
68476-40-4	Hydrocarbons, C3-4; Petroleum gas			100 %
	270-681-9	649-199-00-1	01-2119486557-22	
	Flam. Gas 1, Liquefied gas; H220 H280			

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

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Remove affected person from the danger area and lay down.
 Remove person to fresh air and keep comfortable for breathing.
 Call a doctor if you feel unwell.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.
 Take off contaminated clothing and wash it before reuse.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

 Dry extinguishing powder, Carbon dioxide (CO₂), alcohol resistant foam

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Extremely flammable gas. Vapours can form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.
 Vapours are heavier than air, spread along floors and form explosive mixtures with air.

5.3. Advice for firefighters

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

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Co-ordinate fire-fighting measures to the fire surroundings.
Special protective equipment for firefighters: Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition.
Use only antistatically equipped (spark-free) tools.
Wear anti-static footwear and clothing
Use personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

6.3. Methods and material for containment and cleaning up

Other information

Provide adequate ventilation.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

In use may form flammable/explosive vapour-air mixture.
Use only antistatically equipped (spark-free) tools.
Wear anti-static footwear and clothing

Advice on protection against fire and explosion

Take precautionary measures against static discharges.
Vapours can form explosive mixtures with air.
Pressurised container: May burst if heated.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Do not pierce or burn, even after use.
Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

7.3. Specific end use(s)

Fuel

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

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8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

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. 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

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquefied gas
 Colour: colourless

Test method

Changes in the physical state

Melting point/freezing point: (-187) - (-138) °C
 Boiling point or initial boiling point and boiling range: (-48) - (-0,5) °C
 Flash point: (-107) - (-60) °C

Flammability

Solid/liquid: not applicable
 Gas: not determined

Explosive properties

The product is not: Explosive.

Lower explosion limits: 1,5 vol. %
 Upper explosion limits: 10,9 vol. %
 Auto-ignition temperature: 365 °C

Self-ignition temperature

Solid: not applicable
 Gas: 405-468 °C

Decomposition temperature: not determined

pH-Value: not determined

Water solubility: Immiscible

Solubility in other solvents

not determined

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Partition coefficient n-octanol/water:	not determined
Vapour pressure: (at 20 °C)	1800-10200 hPa
Density (at 20 °C):	1,5 - 2,0 g/cm ³ ASTM D 297
Relative vapour density:	not determined

9.2. Other information**Information with regard to physical hazard classes**

Sustaining combustion: Not sustaining combustion

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Solid content: not determined

Evaporation rate: not determined

Further Information**SECTION 10: Stability and reactivity****10.1. Reactivity**

Extremely flammable gas.

In use may form flammable/explosive vapour-air mixture.

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

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Oxidizing agent

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****SECTION 12: Ecological information****12.1. Toxicity**

The product is not: Ecotoxic.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

The product has not been tested.

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12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	UN 2037
<u>14.2. UN proper shipping name:</u>	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)
<u>14.3. Transport hazard class(es):</u>	2
<u>14.4. Packing group:</u>	-
Hazard label:	2.1



Classification code:	5F
Special Provisions:	191 303 344
Limited quantity:	1 L
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	D

Inland waterways transport (ADN)

<u>14.1. UN number or ID number:</u>	UN 2037
<u>14.2. UN proper shipping name:</u>	Receptacles, small, containing gas (gas cartridges)
<u>14.3. Transport hazard class(es):</u>	2
<u>14.4. Packing group:</u>	-
Hazard label:	2.1



Classification code:	5F
Special Provisions:	191 303 344
Limited quantity:	1 L
Excepted quantity:	E0

Marine transport (IMDG)

<u>14.1. UN number or ID number:</u>	UN 2037
<u>14.2. UN proper shipping name:</u>	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)
<u>14.3. Transport hazard class(es):</u>	2.1
<u>14.4. Packing group:</u>	-
Hazard label:	2.1

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Special Provisions: 191, 277, 303, 344
 Limited quantity: 1000 mL
 Excepted quantity: E0
 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2037
14.2. UN proper shipping name: RECEPTACLES, SMALL, CONTAINING GAS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1



Special Provisions: A145 A167 A802
 Limited quantity Passenger: 1 kg
 Passenger LQ: Y203
 Excepted quantity: E0
 IATA-packing instructions - Passenger: 203
 IATA-max. quantity - Passenger: 1 kg
 IATA-packing instructions - Cargo: 203
 IATA-max. quantity - Cargo: 15 kg

14.6. Special precautions for user

Warning: Flammable gases.

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

EU regulatory information

Restrictions on use (REACH, annex XVII):
 Entry 40

Information according to 2012/18/EU (SEVESO III): 18 Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas (-)
 Additional information: P2

National regulatory information

Water hazard class (D): - - non-hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms

CLP: Classification, labelling and Packaging
 REACH: Registration, Evaluation and Authorization of Chemicals
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
 UN: United Nations
 CAS: Chemical Abstracts Service

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DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation
intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Relevant H and EUH statements (number and full text)

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.

Further Information

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