

Safety Data Sheet

according to Regulation (EC) No 1907/2006



DRUCKGASDOSE 230G

Print date: 08.02.2016

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

1.1. Product identifier

DRUCKGASDOSE 230G
CFH-No. 52109

CAS No: 68476-40-4
EC No: 270-681-9

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

Use of the substance/mixture

Kraftstoff

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|-----------------------------|-------------------------------|
| Company name: | CFH Löt- und Gasgeräte GmbH | |
| Street: | Bahnhofstr. 50 | |
| Place: | D-74254 Offenau | |
| Telephone: | +49 (0)7136 9594-0 | Telefax: +49 (0)7136 9594-44 |
| e-mail: | info@cfh-gmbh.de | |
| Contact person: | Torsten Bogesch | Telephone: +49 (0)7136 9594-0 |
| e-mail: | bogesch.torsten@cfh-gmbh.de | |
| Responsible Department: | info@cfh-gmbh.de | |

1.4. Emergency telephone number: +49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

Further Information

The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
Flammable gas: Flam. Gas 1
Gases under pressure: Compressed gas
Hazard Statements:
Extremely flammable gas.
Contains gas under pressure; may explode if heated.

2.2. Label elements

Regulation (EC) No. 1272/2008

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.

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| | |
|-----------|------------------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P377 | Leaking gas fire: Do not extinguish, unless leak can be stopped safely. |
| P381 | Eliminate all ignition sources if safe to do so. |
| P410+P403 | Protect from sunlight. Store in a well-ventilated place. |

2.3. Other hazards

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

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous components

| CAS No | Chemical name | Quantity | | |
|------------|-----------------------------------------------------------------|----------|-----------------------|-------|
| | EC No | Index No | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | | |
| 68476-40-4 | Hydrocarbons, C3-4; Petroleum gas | | | 100 % |
| | 270-681-9 | | 01-2119486557-22-0000 | |
| | Flam. Gas 1, Compressed 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

General information

Take off immediately all contaminated clothing.

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 immediately all 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.

After ingestion

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media

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

Unsuitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.

Special protective equipment for firefighters: Protective clothing.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use only antistatically equipped (spark-free) tools.

Wear anti-static footwear and clothing

Use personal protection equipment.

6.2. Environmental precautions

No special measures are necessary.

6.3. Methods and material for containment and cleaning up

Provide adequate ventilation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

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.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

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

Do not keep the container sealed.

Advice on storage compatibility

Keep away from:

Oxidising agent

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|-----------------------------------|----------------|----------|--------------------------|
| 68476-40-4 | Hydrocarbons, C3-4; Petroleum gas | | | |
| Worker DNEL, long-term | | inhalation | systemic | 2,21 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 23,4 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 0,0664 mg/m ³ |

8.2. Exposure controls

Appropriate engineering controls

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

Protective and hygiene measures

Avoid contact with skin, eyes and clothes.

Wash hands before breaks and after work.

Eye/face protection

goggles

Hand protection

Tested protective gloves must be worn

Skin protection

Only wear fitting, comfortable and clean protective 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
Odour: characteristic

Test method

pH-Value: not applicable

Changes in the physical state

Melting point: (-187) - (-138) °C

Initial boiling point and boiling range: (-48) - (-0,5) °C

Sublimation point: not determined

Softening point: not determined

Pour point: not determined

: not determined

Flash point: (-107) - (-60) °C

Flammability

Solid: not determined

Gas: not determined

Explosive properties

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Lower explosion limits: 1,5 vol. %

Upper explosion limits: 10,9 vol. %

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Ignition temperature: 365 °C

Auto-ignition temperature

Solid: not determined

Gas: 405-468 °C

Decomposition temperature: not determined

Oxidizing properties

not determined

Vapour pressure:
(at 15 °C) 1800-7500 hPa

Density (at 20 °C): 1,5-2 g/cm³

Water solubility: not determined

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Pressurised container: May burst if heated.

10.5. Incompatible materials

Oxidising agent

10.6. Hazardous decomposition products

Exothermal decomposition with formation of: Carbon dioxide (CO₂), CO

SECTION 11: Toxicological information

11.1. Information on toxicological effects

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

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12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Contaminated packaging

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|-------------------------------------------------|-----------------------------------------------------|
| <u>14.1. UN 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:</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:</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 |
| Special Provisions: | 191, 277, 303, 344 |
| Limited quantity: | 1000 mL |
| Excepted quantity: | E0 |
| EmS: | F-D, S-U |

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Air transport (ICAO)

| | |
|------------------------------------------|-----------------------------------------------------|
| 14.1. UN number: | UN 2037 |
| 14.2. UN proper shipping name: | Receptacles, small, containing gas (gas cartridges) |
| 14.3. Transport hazard class(es): | 2.1 |
| 14.4. Packing group: | - |
| Hazard label: | 2.1 |
| Special Provisions: | 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 |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available.

SECTION 15: Regulatory information

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

EU regulatory information

Information according to 2012/18/EU P2 FLAMMABLE GASES

(SEVESO III):

Additional information:

National regulatory information

Water contaminating class (D): - - not water contaminating

15.2. Chemical safety assessment

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

SECTION 16: Other information

Abbreviations and acronyms

- ADR: Accord européen sur le transport des marchandises dangereuses par Route
(Regelung zum Transport gefährlicher Güter auf der Straße)
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
- CAS: Chemical Abstracts Service
- CLP: Classification, Labelling & Packaging (Einstufung, Kennzeichnung und Verpackung)
- DIN: Deutsches Institut für Normung
- EG: Europäische Gemeinschaft
- Eye Irr.: Serious eye irritation (schwere Augenreizung)
- IATA: International Air Transport Association (Internationale Luftverkehrsvereinigung)
- IMDG: International Maritime Code for Dangerous Goods
(Regelung zum Transport gefährlicher Güter mit Seeschiffen)
- ISO: Internationale Organisation für Normung
- PBT: Persistent, Bioaccumulative and Toxic (Persistent, Bioakkumulierbar und toxisch)
- RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses
(Regelung zum Transport gefährlicher Güter im Schienenverkehr)

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Skin Irr.: Skin irritation (Hautreizung)

VOC: Volatile Organic Compound (flüchtige organische Verbindung)

vPvB: Very Persistent and very Bioaccumulative (sehr persistent und sehr Bioakkumulierbar)

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 above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.