

# 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

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

#### number:

#### 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 (CO<sub>2</sub>). alcohol resistant foam.

### **Unsuitable extinguishing media**

Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>). 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 <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	23,4 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,0664 mg/m <sup>3</sup>

### 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/cm<sup>3</sup>

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 (CO<sub>2</sub>), 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)

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

<b><u>14.1. UN number:</u></b>	UN 2037
<b><u>14.2. UN proper shipping name:</u></b>	Receptacles, small, containing gas (gas cartridges)
<b><u>14.3. Transport hazard class(es):</u></b>	2
<b><u>14.4. Packing group:</u></b>	-
Hazard label:	2.1
Classification code:	5F
Special Provisions:	191 303 344
Limited quantity:	1 L
Excepted quantity:	E0

### Marine transport (IMDG)

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

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