

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

Printing date 26.03.2026

Version number 4 (replaces version 3)

Revision: 13.12.2024

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

· **1.1 Product identifier**

- **Trade name:** **14099 - Flammengasanzünder 17cm**
14083 - Flammengas Anzünder 27.5cm
14076 - Flammengas Anzünder flexibel
14093 - Flammengasanzünder
14087 - Gasanzünder Turboflamme 26cm
18221120 - MP Flammengasanzünder flexibel

- **Article number:** 14083, 14076, 14099, 14093, 14087, 18221120
- **UFI:** C600-604U-V00T-5WRK

· **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** Lighter, filled with gas

· **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:** Tel. +49 (0) 9151-811 153

· **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)
Phone 09151-811 153
(Office hours 08:00 - 16:00)

* **SECTION 2: Hazards identification**

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

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



GHS02 flame

Flam. Gas 1A

H220 Extremely flammable gas.



GHS04 gas cylinder

(Contd. on page 2)

Safety data sheet

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(Contd. from page 1)

Press. Gas (Comp.) H280 Contains gas under pressure; may explode if heated.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is an article and is not subject to chemicals legislation. The labelling refers to the ingredients contained.

Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS02 GHS04

· Signal word Danger

· 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.

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.

· Labelling of packages where the contents do not exceed 125 ml

· Hazard pictograms



GHS02 GHS04

· Signal word Danger

· Hazard statements Void

· Precautionary statements

P102 Keep out of reach of children.

· 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.

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(Contd. from page 2)

SECTION 3: Composition/information on ingredients

3.2 Mixtures

· **Description:** Refillable lighter contains butane mixture.

· **Dangerous components:**

CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-X	butane, pure ⚠ Flam. Gas 1A, H220; ⚠ Press. Gas (Comp.), H280	25 - 50%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-X	Isobutane ⚠ Flam. Gas 1A, H220; ⚠ Press. Gas (Comp.), H280	25 - 50%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-X	propane ⚠ Flam. Gas 1A, H220; ⚠ Press. Gas (Comp.), H280	10 - 25%

· **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** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
The product is not skin irritating.
After frost burns flush at least 15 minutes with water. Cover sterile, consult doctor.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing**
Swallowing is not considered to be a possible way of exposure.
Give small quantities of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

- No further relevant information available.
- **After inhalation:** High vapour/aerosol concentrations can lead to coughing, fatigue and dizziness.
- **After skin contact:** Freeze burns

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**
Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** None known.

(Contd. on page 4)

Safety data sheet

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(Contd. from page 3)

· **5.2 Special hazards arising from the substance or mixture**

During incomplete combustion carbon monoxide can be formed.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Use a breathing apparatus that is independent of circulating air when being in closed rooms.

· **Additional information**

Cool endangered containers with water spray.

Remove goods in stock from incendiary zone, if possible.

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**

When entering the area use breathing equipment independent from ambient air, unless innocuity of the atmosphere has been proven.

Ensure adequate ventilation

Keep away from ignition sources

· **For non-emergency personnel**

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

· **For emergency responders** Put on suitable personal protective equipment.

· **6.2 Environmental precautions:**

Avoid any infiltration into sewage systems, basements, working pits or other places where product accumulations may cause a hazard.

· **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**

Keep away from heat and direct sunlight.

Do not allow gas to escape.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Vapours are heavier than air and may travel long distances along ground, ignite and flash back to source.

· **Handling**

Avoid contact with the eyes and skin.

Keep ignition sources away when refilling and ensure adequate ventilation.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and containers:**

Store containers in a well aired place at a temperature of less than 50°C.

(Contd. on page 5)

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(Contd. from page 4)

- **Information about storage in one common storage facility:**
Do not store together with oxidizing or self-igniting substances.
- **Further information about storage conditions:** Store at dry and cool places.
- **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

106-97-8 butane, pure

WEL (Great Britain)	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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- **Additional information:** The lists that were valid during the compilation were used as basis.
- **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.
Use respiratory protection in case of insufficient ventilation or if the limit values are exceeded.
Filter AX.
- **Hand protection** Not required
- **Material of gloves** Not required.
- **Penetration time of glove material** Not required.
- **Eye/face protection** Not required

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Colour:** colourless
- **Odour:** Nearly odourless
- **Melting point/freezing point:** -135 °C
- **Boiling point or initial boiling point and boiling range** -0 °C
- **Flammability** Extremely flammable liquefied gas.
- **Lower and upper explosion limit**
- **Lower:** 1.9 Vol %
- **Upper:** 8.5 Vol %
- **Flash point:** -60 °C

(Contd. on page 6)

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(Contd. from page 5)

· Auto-ignition temperature:	405 °C
· SADT	
· Solubility	
· Water at 20 °C:	0.061 g/l
· Partition coefficient n-octanol/water (log value)	Not determined
· Vapour pressure at 20 °C:	2.1 hPa
· Density and/or relative density	
· Density at 20 °C	0.0027 g/cm ³
· 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	Extremely flammable gas.
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Contains gas under pressure; may explode if heated.
· 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	No statement can be made on this point due to a lack of studies on the product.
	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

(Contd. on page 7)

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(Contd. from page 6)

· **10.3 Possibility of hazardous reactions**

Forms explosive gas mixture with air
 May react violently with oxidizing substances.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

· **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.

· **LD/LC50 values that are relevant for classification:**

106-97-8 butane, pure

Inhalative	LC50	1,237 mg/l/2h (Rat) Gas
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75-28-5 Isobutane

Inhalative	LC50	1,237 mg/l/2h (mouse) Gas
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74-98-6 propane

Inhalative	LC50	mg/l/4h (Rat) Gas
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· **Primary irritant effect:**

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

· **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.

· **Other information (about experimental toxicology):**

There is no known specific toxic effect of n-butane, but it produces anaesthesia at higher concentrations.

· **Additional toxicological information:**

· **Repeated dose toxicity**

Solvent "sniffing" (abuse) or intentional overexposure to vapours can produce serious central nervous system effects, including unconsciousness, and possibly death.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

EU

(Contd. on page 8)

Safety data sheet

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 18221120 - MP Flammengasanzünder flexibel

(Contd. from page 7)

* SECTION 12: Ecological information

· 12.1 Toxicity

· **Aquatic toxicity:** No further relevant information available.

· **12.2 Persistence and degradability** Rapid photochemical oxidation in the air.

· **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** No further relevant information available.

· **12.4 Mobility in soil** Spillages are unlikely to penetrate the soil.

· **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** Can contribute to the greenhouse effect if released in large quantities.

· **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.
 Only submit completely empty containers for recycling or disposal.

· **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

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

* SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR/RID, IMDG, IATA**

UN1057

· **14.2 UN proper shipping name**

· **ADR/RID**

1057 LIGHTERS

· **IMDG, IATA**

LIGHTERS

(Contd. on page 9)

Safety data sheet

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Trade name: 14099 - Flammengasanzünder 17cm
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(Contd. from page 8)

· 14.3 Transport hazard class(es)	
· ADR/RID	
	
· Class	2 6F 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:	
· Marine pollutant:	No
· 14.6 Special precautions for user	
· Warning:	Gases.
· Kemler Number:	-
· EMS Number:	F-D,S-U
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· 14.7 Maritime transport in bulk according to IMO instruments	
Not applicable	
· Transport/Additional information:	
· Quantity limitations	On passenger aircraft/rail: 1 kg On cargo aircraft only: 15 kg
· ADR/RID	
· Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	2
· Tunnel restriction code	D
· Remarks:	Special provision(s): 201, 654, 658
· IMDG	
· Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity

(Contd. on page 10)

Safety data sheet

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 18221120 - MP Flammengasanzünder flexibel

(Contd. from page 9)

· Remarks:	Special provision(s): 201
· IATA	
· Remarks:	Special provision(s): A802
· UN "Model Regulation":	UN 1057 LIGHTERS, 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.
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 10 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50 t

· **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.

(Contd. on page 11)

Safety data sheet
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(Contd. from page 10)

- **Reasons for alterations** Adaptation of product name and/or article number(s).
- **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,
 phone: (+49) 511 42079 - 0, reach@dekra.com.

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- **Date of previous version:** 13.12.2023
- **Version number of previous version:** 3
- **Abbreviations and acronyms:**
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organisation
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
 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)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Flam. Gas 1A: Flammable gases – Category 1A
 Press. Gas (Comp.): Gases under pressure – Compressed gas
- *** Data compared to the previous version altered.**