

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 25.04.2023

Version number 1

Revision: 25.04.2023

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

- **1.1 Product identifier**
- **Trade name:** Butane gas 227gr 21376
- **Article number:** 871125221376\_08
- **UFI:** FJ12-4072-600Q-646R
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use SU21** Consumer uses: Private households / general public / consumers
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
EDCO Eindhoven B.V.  
Adriaan Mulderweg 9/11  
5657 EM Eindhoven  
The Netherlands  
ivan.huntjens@edco.nl
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:** During normal opening times: +31 40 250 11 11

### 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.

- **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**  
H220 Extremely flammable gas.
- **Precautionary statements**  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
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.  
P403 Store in a well-ventilated place.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

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· <b>Dangerous components:</b>		
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	<i>butane, pure</i> ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	50-70.9%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8	<i>isobutane</i> ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	25-32%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	<i>propane</i> ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	0-2%

· **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**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **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<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **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 disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** 2 A

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- 7.3 **Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Hand protection**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection** Not required.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Gaseous
- **Colour:** Colourless
- **Odour:** Odourless
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** -11.7 °C (75-28-5 isobutane)
- **Flammability** Not determined.
- **Lower and upper explosion limit**
- **Lower:** 1.5 Vol % (106-97-8 butane, pure)
- **Upper:** 8.5 Vol % (106-97-8 butane, pure)
- **Flash point:** -60 °C (106-97-8 butane, pure)
- **Auto-ignition temperature:** 365 °C (106-97-8 butane, pure)
- **Decomposition temperature:** Not determined.
- **pH** Mixture is a gas.
- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **Dynamic:** Not determined.
- **Solubility**
- **water:** Not miscible or difficult to mix.
- **Partition coefficient n-octanol/water (log value)** Not determined.

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· Vapour pressure at 20 °C:	3,000 hPa (75-28-5 isobutane)
· Density and/or relative density	
· Density at 20 °C:	>0.13262-<0.2374 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.

· <b>9.2 Other information</b>	
· Appearance:	
· Form:	Compressed liquefied gas
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	50-72.9 %
· Solids content:	0.0 %
· Change in condition	
· Evaporation rate	Not applicable.

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Extremely flammable gas.
· Aerosols	Void
· 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
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 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.

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· <b>LD/LC50 values relevant for classification:</b>
<b>106-97-8 butane, pure</b>
Inhalative   LC50/4 h   658 mg/l (rat)
· <b>Skin corrosion/irritation</b> Based on available data, the classification criteria are not met.
· <b>Serious eye damage/irritation</b> Based on available data, the classification criteria are not met.
· <b>Respiratory or skin sensitisation</b> Based on available data, the classification criteria are not met.
· <b>Germ cell mutagenicity</b> Based on available data, the classification criteria are not met.
· <b>Carcinogenicity</b> Based on available data, the classification criteria are not met.
· <b>Reproductive toxicity</b> Based on available data, the classification criteria are not met.
· <b>STOT-single exposure</b> Based on available data, the classification criteria are not met.
· <b>STOT-repeated exposure</b> Based on available data, the classification criteria are not met.
· <b>Aspiration hazard</b> Based on available data, the classification criteria are not met.
· <b>11.2 Information on other hazards</b>
· <b>Endocrine disrupting properties</b>
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.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **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:**
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

- |                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| · <b>14.1 UN number or ID number</b>  |                                                          |
| · <b>ADR, IMDG, IATA</b>              | UN2037                                                   |
| · <b>14.2 UN proper shipping name</b> |                                                          |
| · <b>ADR</b>                          | 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) |
| · <b>IMDG, IATA</b>                   | RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)      |

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## · 14.3 Transport hazard class(es)

## · ADR



· Class 2.5A Gases.  
· Label 2.1

## · IMDG, IATA



· Class 2.1 Gases.  
· Label 2.1

## · 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards: Not applicable.

## · 14.6 Special precautions for user

Warning: Gases.

## · Hazard identification number (Kemler code):

-

## · EMS Number:

F-D,S-U

## · Stowage Category

B

## · Stowage Code

SW2 Clear of living quarters.  
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.

## · 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

## · Transport/Additional information:

## · ADR

## · Limited quantities (LQ)

1L

## · Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

## · Transport category

3

## · Tunnel restriction code

E

## · IMDG

## · Limited quantities (LQ)

1L

## · Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

## · UN "Model Regulation":

UN 2037 RECEPTACLES, SMALL, CONTAINING GAS  
(GAS CARTRIDGES), 2.1

## SECTION 15: Regulatory information

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

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

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

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**· Hazard pictograms**

GHS02

**· Signal word** *Danger***· Hazard statements***H220 Extremely flammable gas.***· Precautionary statements***P101 If medical advice is needed, have product container or label at hand.**P102 Keep out of reach of children.**P103 Read carefully and follow all instructions.**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.**P403 Store in a well-ventilated place.***· Directive 2012/18/EU****· Named dangerous substances - ANNEX I** *None of the ingredients is listed.***· Seveso category P2** *FLAMMABLE GASES***· 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.***· 15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.***SECTION 16: Other information***This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.**This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.***· Relevant phrases***H220 Extremely flammable gas.**H280 Contains gas under pressure; may explode if heated.***· 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*

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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  
vPvB: very Persistent and very Bioaccumulative  
Flam. Gas 1A: Flammable gases – Category 1A  
Press. Gas (Comp.): Gases under pressure – Compressed gas

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EU