



Baygas Butane Gas Cartridge

16.05.2024

1 von 10

Section 1: Identification of the Substance/Mixture and the Company

1.1. Product Identifier:

- Product Name: Baygas Butane Gas Cartridge
- **Other Trade Names:**
Article No. 57060000 (330g) Valve Gas Cartridge
Article No. 78584000 (227g) Valve Gas Cartridge
Article No. 57037000 (500g) Screw Valve Gas Cartridge
Article No. 78617000 (190g) Piercing Gas Cartridge

1.2 Relevant Identified Uses of the Substance/Mixture and Uses Advised Against:

- **Identified Uses:**
General use as fuel (liquefied gas).

1.3. Details of the Supplier Providing the Safety Data Sheet:

- Company Name: ADA Import & Großvertriebs GmbH
- Address: Bergiusstraße 53-59, D-12057 Berlin, Germany
- Phone: +49 (0) 30 767 647-0
- Fax: +49 (0) 30 767 647-109
- Email: info@ada-gmbh.de
- Contact Person: Mr. Riedel, reklamation@ada-gmbh.de
- Website: www.ada-gmbh.de
- Department Providing Information: Shipping/Sales

1.4. Emergency Phone Number: +49 (0) 30 767 647-0 (available during office hours: 8:00-17:00)

Section 2: Hazard Identification

2.1. Classification of the Substance/Mixture

(Regulation (EC) No. 1272/2008):
Flam. Gas 1A; H220
Liquefied gas; H280

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.
- P103 Read instructions carefully and follow them.
- P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.



Baygas Butane Gas Cartridge

16.05.2024

2 von 10

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.

- **Additional Information:**
 - o This cartridge complies with DIN EN 417 standard.

2.3. Other Hazards:

- PBT/vPvB Criteria: The substances in the mixture do not meet the PBT/vPvB criteria as per REACH Annex XIII.
- Additional Hazards: Formation of explosive/flammable vapor/air mixtures possible during use. Vapors can spread over long distances and be ignited by flames or sparks. Containers under pressure: may burst if heated. Cryogenic liquid can cause cold burns or frostbite upon contact.

Section 3: Composition/Information on Ingredients

3.2. Mixtures:

- **Chemical Characterization:**
Liquefied gas.
- **Hazardous Components:**

CAS-No.	substance name			proportion
	EG-Nr.	Index-No.	REACH-No.	
	(EG) No. 1272/2008			
106-97-8	Butane			100 %
	203-448-7	601-004-00-0		
	Flam. Gas 1, Liquefied gas; H220 H280			

Section 4: First Aid Measures

4.1. Description of First Aid Measures:

- General Advice: Seek medical advice in case of symptoms or doubt.
- Inhalation: Move person to fresh air. If breathing is difficult, keep patient at rest in a position that facilitates breathing. If breathing difficulties or respiratory arrest occurs, provide artificial respiration. Administer oxygen if needed. Call a doctor if symptoms persist.
- Skin Contact: Wash immediately with plenty of water and soap. Remove contaminated clothing. In case of frostbite, rinse with plenty of water. Do not remove clothing. Seek medical attention immediately.
- Eye Contact: Rinse immediately and thoroughly with water. If symptoms persist, consult an ophthalmologist. Remove contact lenses if possible. Continue rinsing.
- Ingestion: Rinse mouth and drink plenty of water. Do not give anything by mouth to an unconscious person or if convulsions occur. Seek medical advice if feeling unwell.



Baygas Butane Gas Cartridge

16.05.2024

3 von 10

4.2. Most Important Symptoms and Effects, Acute and Delayed:

No information available.

4.3. Indication of Immediate Medical Attention and Special Treatment Needed:

Symptomatic treatment.

Section 5: Firefighting Measures

5.1. Extinguishing Media:

• **Suitable Extinguishing Media:**

Dry powder, carbon dioxide (CO₂). Flame: Water mist, water spray jet adjusted to surrounding fire.

5.2. Special Hazards Arising from the Substance/Mixture:

• Hazards: Extremely flammable gas. Vapors may form explosive mixtures with air. Heating increases pressure and risk of bursting. Vapors are heavier than air and may spread along the ground, potentially igniting at a distance. Thermal decomposition can release irritating gases and vapors, such as carbon monoxide and carbon dioxide.

5.3. Advice for Firefighters:

• Firefighting Instructions: Wear self-contained breathing apparatus. If safe, stop leaks and contain spilled material. Otherwise, allow controlled burning. Apply usual precautions from a safe distance.

• **Additional Advice:**

Use water spray to cool containers in the danger area.

Section 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment, and Emergency Procedures:

- General Advice: Do not inhale gas/vapor/aerosol. Avoid contact with skin, eyes, and clothing. Evacuate the area.
- Non-Emergency Personnel: Remove all ignition sources. Ensure adequate ventilation. Use personal protective equipment.
- Emergency Responders: Use personal protective equipment.

6.2. Environmental Precautions:

Prevent uncontrolled release into the environment. Explosion hazard.

6.3. Methods and Materials for Containment and Cleaning Up:

- Containment: Eliminate leak if safely possible.
- Cleaning Up: Ventilate the affected area.
- Additional Advice: Use only anti-static (non-sparking) tools.

6.4. Reference to Other Sections:

See Sections 7, 8, and 13 for safe handling, personal protective equipment, and disposal information.



Safety Data Sheet (SDS)

according to Regulation (EC) No 1907/2006

Baygas Butane Gas Cartridge

16.05.2024

4 von 10

Section 7: Handling and Storage

7.1. Precautions for Safe Handling:

- Safe Handling Advice: Ensure adequate ventilation and localized extraction at critical points.
- Fire and Explosion Protection: Keep away from ignition sources. No smoking. Take measures against static discharges. Vapors may form explosive mixtures with air. Do not forcibly open, puncture, or burn containers, even after use.
- Hygiene Measures: Remove contaminated clothing. Wash hands before breaks and after work. Do not eat or drink while working.

7.2. Conditions for Safe Storage, Including Any Incompatibilities:

- Storage Requirements: Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. Do not expose to temperatures above 50 °C/122 °F.
- Incompatible Materials: Oxidizing agents. Pyrophoric or self-heating substances.
- Additional Storage Advice: Protect from sunlight. Do not expose to temperatures above 50 °C/122 °F.
- Storage Class (TRGS 510): 2A (Gases (excluding aerosol dispensers and lighters)).

7.3. Specific End Uses:

Other fuels (including mixtures) (liquefied gas).

Section 8: Exposure Controls/Personal Protection

8.1. Control Parameters:

Workplace limit values (TRGS 900).

CAS-Nr.	description	ppm	mg/m ³	F/m ³	peak limitation	type
106-97-8	Butane	1000	2400		4(II)	

8.2. Exposure Controls:



- Appropriate Engineering Controls: Ensure adequate ventilation and localized extraction at critical points.
- Personal Protective Equipment:
 - Eye/Face Protection: Wear eye/face protection.
 - Hand Protection: Wear suitable protective gloves (cold-resistant, heat-resistant, anti-static).
 - Body Protection: Wear flame-retardant clothing. Use antistatic footwear and workwear.
 - Respiratory Protection: Use respiratory protection in case of insufficient ventilation.
 - Thermal Hazards: Wear flame-retardant clothing. Use antistatic footwear and workwear.
- Environmental Exposure Controls: Prevent release into the environment.



Baygas Butane Gas Cartridge

16.05.2024

5 von 10

SECTION 9: Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

- Appearance: Colorless
- Odor: Odorless
- Odor Threshold: Not determined
- Melting/Freezing Point: Not applicable
- Boiling Point/Boiling Range:
 - o Propane: -42.1°C
- Flammability:
 - o Solid/Liquid: Not determined
 - o Gas: Not determined
- Lower Explosion Limit:
 - o Isobutane (2-Methylpropane): 1.8 vol.%
- Upper Explosion Limit:
 - o Propane: 9.5 vol.%
- Flash Point:
 - o Propane: -104.4°C
- Auto-ignition Temperature:
 - o Butane: 287°C
- Decomposition Temperature: Not determined
- pH: Not applicable
- Kinematic Viscosity: Not determined
- Water Solubility: Partially miscible
- Solubility in Other Solvents: Not determined
- Partition Coefficient (n-Octanol/Water): log Pow 2.36 - 2.89
- Vapor Pressure: 3040-7500 hPa (at 20°C)
 - o Vapor Pressure at 21.1°C: (Butane) 2140 hPa
- Density (at 20°C): 0.501 - 0.549 g/cm³
- Relative Vapor Density (air=1): 1.55 - 2.595
- Particle Characteristics: Not applicable

Hazardous properties: Heating can cause explosion. Vapors can form explosive mixtures with air.

SECTION 10: Stability and Reactivity

10.1. Reactivity

Extremely flammable gas.

10.2 Chemical Stability

The product is stable under normal ambient temperatures during storage.

10.3 Possibility of hazardous reactions:

Vapors can form explosive mixtures with air.



Baygas Butane Gas Cartridge

16.05.2024

6 von 10

10.4. Conditions to avoid:

Keep away from heat sources (e.g., hot surfaces), sparks, and open flames. Heating leads to an increase in pressure and risk of bursting. Vapors can form explosive mixtures with air. After skin contact: Cryogenic liquid gas. Contact with the product can cause cold burns or frostbite.

10.5. Incompatible materials

Oxidizing agents. Pyrophoric or self-heating substances. Nitric acid.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the release of irritating gases and vapors. Carbon monoxide, carbon dioxide (CO₂).

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.

• **Skin corrosion/irritation**

Based on available data, the classification criteria are not met. Cryogenic liquid gas. Contact with the product can cause cold burns or frostbite.

• **Respiratory or skin sensitization**

Based on available data, the classification criteria are not met.

• **Carcinogenicity, mutagenicity, and reproductive toxicity**

Based on available data, the classification criteria are not met.

• **Specific target organ toxicity – single exposure**

Based on available data, the classification criteria are not met.

• **Specific target organ toxicity – repeated exposure**

Based on available data, the classification criteria are not met.

• **Aspiration hazard**

Based on available data, the classification criteria are not met.

Information on likely routes of exposure: Eye contact, skin contact, inhalation. Active ingredient: Ingestion.

11.2. Information on other hazards

• **Endocrine disrupting properties**

This product does not contain any substance that has endocrine-disrupting properties with respect to humans as no component meets the criteria.

SECTION 12: Ecological Information

12.1. Toxicity

Based on available data, the classification criteria are not met. 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.

Partition coefficient n-octanol/water

CAS-Nr.	Designation	Log Pow
106-97-8	Butane	2,89



Baygas Butane Gas Cartridge

16.05.2024

7 von 10

12.4. Mobility in soil

The product has not been tested.

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. Endocrine disrupting properties

This product does not contain any substance that has endocrine-disrupting properties with respect to non-target organisms as no component meets the criteria.

12.7. Other adverse effects

No information available. Avoid release to the environment.

Further notes

Avoid release to the environment

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Recommendations for disposal

Do not allow to enter sewers or waterways. Dispose of in accordance with local regulations.

Disposal of uncleaned packaging and recommended cleaning agents

Completely emptied containers can be recycled. Do not forcibly open. Do not pierce or burn, even after use.

SECTION 14: Transport Information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 2037
14.2. UN proper shipping name:	Receptacles, small, containing gas (gas cartridges)
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
• Label:	2.1



• Classification code:	5F
• Special provisions:	191 303 344
• Limited quantity (LQ):	1 L
• Excepted quantity:	E0
• Transport category:	2
• Tunnel restriction code:	D

Inland waterway transport (ADN)

14.1. UN number or ID number:	UN 2037
14.2. UN proper shipping name:	Receptacles, small, containing gas (gas cartridges)
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
• Label:	2.1



• Classification code:	5F
• Special provisions:	191 303 344



Safety Data Sheet (SDS)

according to Regulation (EC) No 1907/2006

Baygas Butane Gas Cartridge

16.05.2024

8 von 10

- Limited quantity (LQ): 1 L
- Excepted quantity: E0

Sea transport (IMDG)

- 14.1. UN number or ID 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:** -
- Label: 2.1



- Special provisions: 191, 277, 303, 344
- Limited quantity (LQ): 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:** -
- Label: 2.1



- Special provisions: A167 A802
- Limited quantity (LQ) Passenger: 1 kg
- Passenger LQ: Y203
- Excepted quantity: E0
- IATA packing instruction - Passenger: 203
- IATA maximum quantity - Passenger: 1 kg
- IATA packing instruction - Cargo: 203
- IATA maximum quantity - Cargo: 15 kg

14.5. Environmental hazards

- Environmental hazard: No

14.6. Special precautions for user

Extremely flammable gas. Do not expose to temperatures above 50 °C/122 °F.

14.7. 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 regulations

Restrictions on use (REACH, Annex XVII):

Entry 40

Information on IE Directive 2010/75/EU (VOC): 100 % (501 g/l)



Baygas Butane Gas Cartridge

16.05.2024

9 von 10

Information on SEVESO III Directive 2012/18/EU: 18 Liquefied flammable gases, category 1 or 2 (including LPG) and natural gas (-)
Additional notes: P2

Additional Notes

This cartridge complies with DIN EN 417.

National regulations

Occupational restrictions: Observe employment restrictions for young people (§ 22 JArbSchG).

Water hazard class: - - Not hazardous to water

Status: Classification of mixtures according to Annex 1, No. 5 AwSV

15.2. Chemical safety assessment

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

SECTION 16: Other Information

Changes

This data sheet contains changes from the previous version in sections: 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.

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

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

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see ECHA: Guidelines on Information Requirements and Chemical Safety
Assessment, Chapter R.20 (Glossary of terms and abbreviations).



Safety Data Sheet (SDS)

according to Regulation (EC) No 1907/2006

Baygas Butane Gas Cartridge

16.05.2024

10 von 10

Classification of mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Evaluation method
Flam. Gas 1A; H220	Based on test data
Liquefied gas; H280	Based on test data

Full text of H- and EUH-phrases (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 current state of our knowledge; it does not guarantee product properties and does not establish a contractual legal relationship. Compliance with existing laws and regulations is the responsibility of the recipient of our products.

((The data of hazardous ingredients are taken from the most recent safety data sheet provided by the supplier.))