

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 25 Jun 2025

Print date: 24 Oct 2025

Version: 1



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Butangas 1925° 350ml

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

1.1. Product identifier

Trade name/designation:

Butangas 1925° 350ml

Article No.:

Y902201

CAS No.:

68476-85-7

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

Use of the substance/mixture:

(Fuel) gases

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Gases under pressure (Press. Gas (Liq.))	H280: Contains gas under pressure; may explode if heated.	
Flammable gases (Flam. Gas 1A)	H220: Extremely flammable gas.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02

Flame

Signal word: Danger

Hazard statements for physical hazards	
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.

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Supplemental hazard information: none

Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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Precautionary statements Response

P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
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P381	In case of leakage, eliminate all ignition sources.
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Precautionary statements Storage

P403	Store in a well-ventilated place.
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2.3. Other hazards

Other adverse effects:

The product does not meet the PBT/vPvB criteria.

The product does not contain any substances with endocrine-disrupting properties.

SECTION 3: Composition/information on ingredients

3.1. Substances

Additional information:

Exempted according to the provisions of Article 2 (7) (b) and Annex V of REACH. Liquefied petroleum gas is exempted from registration according to Annex V, point 10 of Regulation (EC) No 1907/2006. Alternative CAS 68476-40-4 Hydrocarbons, C3-4 The classification as "carcinogenic" or "mutagenic" is not mandatory if it can be shown that the substance contains less than 0.1 per cent by weight of 1, 3-butadiene (EINECS No 203-50-8).

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 68476-85-7 EC No.: 270-704-2 REACH No.: 01-2119486557-22	Petroleum gases, liquefied Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger Acute Toxicity Estimate ATE (inhalation, gases) 658 ppmV	> 99.9 %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Use fresh air masks when rescuing exposed persons. Take the injured person into fresh air, give oxygen immediately and take him to hospital as soon as possible.

Following inhalation:

Remove the injured person to the open air. If breathing has stopped, give artificial respiration. If breathing is difficult, trained personnel should administer oxygen. The injured person should be placed in a warm place with fresh air and a doctor should be called immediately.

Following inhalation: Irritation, Dizziness, Nausea

In case of skin contact:

After contact with skin, wash immediately with water and soap. Remove contaminated clothing. Warm the exposed part of the body in lukewarm water if cold injury has occurred. DO NOT use water that is too warm. Frostbite should be treated by a doctor.

After eye contact:

If possible, remove any contact lenses immediately. Rinse eyes with lukewarm water for several minutes. If irritation persists, consult a doctor or ophthalmologist.

Following ingestion:

Consult a doctor if symptoms persist.

4.2. Most important symptoms and effects, both acute and delayed

General: Contact with rapidly spreading gas may cause frostbite.

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Inhalation: High concentrations may displace normal air and cause asphyxiation due to lack of oxygen. May cause drowsiness and dizziness.
In case of eye contact: Frostbite, irritation.
In case of skin contact: Contact with rapidly spreading gas may cause frostbite. May cause dry skin or skin cracking with prolonged or frequently repeated exposure.
In case of ingestion: Frostbite.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically. If you feel unwell, seek medical advice and show the safety data sheet to a doctor.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media:

Water jet, Foam

5.2. Special hazards arising from the substance or mixture

In case of fire, harmful gases (carbon monoxide and carbon dioxide) may be produced. In the event of fire, pressure can build up which can cause the packaging to explode. The gas is explosive on contact with air. Flammable gas.

5.3. Advice for firefighters

Use appropriate respiratory protection. Full protective clothing. Vapours are heavier than air, spread along floors and form explosive mixtures with air. In case of fire, cool containers with water spray. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Use recommended protective equipment, see section 8. Do not breathe the gas. Clear the area and vent the gases. Note risk of ignition and explosion. Switch off equipment with open flame, embers or other heat generation. Note the risk of sparks from static electricity. Do not undress in the room where spillage/fallout has occurred. Use mask with fresh air supply if oxygen level is low or unknown. Keep unauthorised persons away. Switch off the power with the main switch outside the room where the emission is, but not with the switch in the room where the emission took place.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Danger to water bodies and sewage systems. Prevent entry into drains, cellars, work pits or other places where gas accumulation could be dangerous. Always contact the emergency services in the event of accidental emissions from this product.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Only use non-sparking tools.

Other information:

The gas from leaking gas cylinders must evaporate outdoors. Evacuate and ventilate the building.

6.4. Reference to other sections

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Take the necessary precautions and protective measures to ensure safe handling. Only experienced and appropriately trained persons should handle compressed gas. Only use equipment suitable for this product, its pressure and temperature. If in doubt, please contact your gas supplier. Check hoses and closures regularly, paying attention to gas leaks. Do not eat, drink or smoke in rooms where this product is used. Open flames, hot objects, sparks or other sources of ignition must not be present in the premises where this product is handled. Prevent static electricity from semi-conductive floor coverings, shoe soles and humidity above 50%. There must be an evacuation plan and evacuation routes must not be blocked.

Fire prevent measures:

Take precautionary measures against static discharge. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Advices on general occupational hygiene

Store out of reach of children and pets. Store separately from food. Avoid contact with eyes and skin. Wash hands thoroughly after handling. Do not breathe gas. Keep away from: Incompatible materials. Work in such a way that spillages are avoided. If this does happen, act as described in section 6 of this safety data sheet. Wear personal protection equipment (refer to section 8).

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions:

The product should be stored in such a way that risks to health and the environment are avoided. Avoid contact with people and animals and do not dispose of the product in a sensitive environment. Take the necessary precautions and protective measures for safe storage. Keep away from food and animal feed and from equipment or surfaces that come into contact with them. Keep out of reach of children. Store tightly closed in the original packaging. Always use sealed and clearly labelled packaging. Store in a well-ventilated area. Store in a dry place that is not above normal room temperature. Store at a maximum of 50 °C. Do not store in direct sunlight. Avoid naked flames, hot objects, sparks or other sources of ignition. Do not store near incompatible materials (see section 10.5).

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ventilation in the workplace must ensure air quality that meets the specifications of the applicable working environment legislation. Local exhaust ventilation should be used to remove airborne contaminants at source. Since nitrogen gases could be released, oxygen meters should be used.

8.2.2. Personal protection equipment

Eye/face protection:

Safety glasses or goggles (EN 166).

Skin protection:

Wear protective gloves/protective clothing. Escaping gas can cause severe cold. It is recommended to wear cold protection gloves marked with the appropriate pictogram. Wear gloves for protection against chemicals according to EN 374. For continuous contact we recommend gloves with a breakthrough time of at least 240 minutes, with the preference for a breakthrough time greater than 480 minutes. For short term or splash protection we recommend the same. We are aware that suitable gloves offering this protection are not available. In this case, a shorter breakthrough time is permissible, provided the procedures for maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance the gloves give against a chemical substance, as this depends on the

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exact composition of the material of the gloves. The exact breakthrough time should be checked with the glove manufacturer and adhered to.

Recommended material: NBR (Nitrile rubber) PVC (polyvinyl chloride)

Respiratory protection:

Use suitable respiratory protective equipment if ventilation is inadequate. The most suitable respiratory protective equipment should be selected in consultation with the designated safety officer, taking into account the risk assessment for the task in question. Due to the physical and chemical properties of the product, the following filter types and/or filter combinations are recommended: -AX; Note that a respirator with filter does not protect against oxygen deficiency in the air. A respirator may be required.

Other protection measures:

The hazards posed by the product or its components must be considered in the activity-based risk assessment in accordance with the applicable working environment legislation. The risk assessment should be reviewed regularly and updated as necessary.

8.2.3. Environmental exposure controls

Do not allow to enter drains/surface water/ground water. Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: gaseous

Form: Liquefied gas

Colour: colourless

Odour: odourless

flammability: No data available

Safety relevant basis data

Parameter	Value	① Method ② Remark
Melting point	-187 - -138 °C	
Freezing point	-187 - -138 °C	
Initial boiling point and boiling range	-42 - -0.5 °C	
Flash point	-104 - -60 °C	
Evaporation rate	No data available	
Auto-ignition temperature	405 - 468 °C	
Upper/lower flammability or explosive limits	1.86 - 9.5 %	
Vapour pressure	1.8 - 7.5 bar	
Vapour density	1.86 - 2.45	
Bulk density	not applicable	
Water solubility	not applicable	② negligible
Partition coefficient: n-octanol/water	No data available	

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

strong oxidants

10.2. Chemical stability

Stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Vapours can form explosive mixtures with air. Reacts strongly or explosively with certain oxidising agents.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Protect from direct sunlight.

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10.5. Incompatible materials

Oxidizing agent

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Petroleum gases, liquefied	CAS No.: 68476-85-7	EC No.: 270-704-2
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LC₅₀ Acute inhalation toxicity (gas): 658 ppmV 4 h (Rat)
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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.

No sensitising effect known.

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.

Additional information:

Caution: Inhalation of large quantities may cause suffocation due to lack of oxygen.

11.2. Information on other hazards

Endocrine disrupting properties:

The mixture does not contain substances $\geq 0.1\%$ of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Petroleum gases, liquefied	CAS No.: 68476-85-7	EC No.: 270-704-2
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LC₅₀: >1,000 mg/L 4 d (fish)
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Terrestrial toxicity:

The product is not to be labelled as an environmental hazard. However, it is not inconceivable that large emissions, or repeated small emissions, can have a harmful effect on the environment. Avoid release to the environment. Do not allow to enter drains/surface water/ground water.

12.2. Persistence and degradability

Biodegradation:

The product degrades easily in the natural environment.

12.3. Bioaccumulative potential

Bioconcentration factor (BCF):

This product or its ingredients do not accumulate in nature.

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12.4. Mobility in soil

Information about mobility in nature is not available. Evaporates quickly in air.

12.5. Results of PBT and vPvB assessment

Petroleum gases, liquefied CAS No.: 68476-85-7 EC No.: 270-704-2

Results of PBT and vPvB assessment: —

The product does not meet the PBT/vPvB criteria.

12.6. Endocrine disrupting properties

The mixture does not contain substances $\geq 0.1\%$ of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

12.7. Other adverse effects

water hazard class 1: slightly hazardous to water

The product releases volatile hydrocarbons to the atmosphere. Large emissions into the air, in combination with sunlight, can create ground-level ozone and may result in damage to Vegetation, äs well äs respiratory difficulties for humans and animals.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not allow to enter drains/surface water/ground water. Product and packaging must be treated as hazardous waste. Pressure vessels: Do not puncture or incinerate, even after use. Also consider local regulations on waste disposal. See Regulation 2008/98/EC on waste. Please comply with national or regional regulations on waste disposal. This product is not normally recycled.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

16 05 04 * Gases in pressure containers (including halons) containing hazardous substances

*: Evidence for disposal must be provided.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 2037	UN 2037	UN 2037	UN 2037
14.2. UN proper shipping name			
RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
No data available	No data available	No data available	No data available
14.6. Special precautions for user			
Classification code: 5F Tunnel restriction code: (D)	Classification code: 5F	Remark: Transport category: 2; Maximum total quantity per transport unit 333 kg or litres. Stowage category	No data available

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
		(IMDG) not specified (IMDG).	

14.7. Maritime 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

15.1.1. EU legislation

Restrictions on use:

The product is subject to restrictions. REACH annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles.

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EN	European Standard
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC ₅₀	Lethal (fatal) Concentration 50%
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
UN	United Nations

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Gases under pressure (Press. Gas (Liq.))	H280: Contains gas under pressure; may explode if heated.	
Flammable gases (Flam. Gas 1A)	H220: Extremely flammable gas.	

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16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.

16.6. Training advice

No data available

16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.