

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation),
EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 07.11.2023

Version number 1

Revision: 07.11.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name: COMMERCIAL BUTANE****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: Butane gas**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Coral Gas AEBEY

12A Irodou Attikou

Maroussi, 151 24

Tel. : +30 210 9491000

Fax : +30 210 9404751

e-mail : customerservice@ceg.gr

1.4 Emergency telephone number:

European Emergency Tel.: 112

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation EC No 1272/2008 CLP:**

H280 : Contains gas under pressure; may explode if heated



GHS02 flame

Flam. Gas 1A H220 Extremely flammable gas.

Additional information:**Supplementary Information**

Note K: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w 1,3-butadiene (Einecs No 203-450-8). If the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 should apply. This note applies only to certain complex oil-derived substances in Part 3 of Annex VI to Regulation (EC) No 1272/2008.

For the complete labelling of H phrases referred to in this section, see section 16.

2.2 Label elements**Labelling according to Regulation EC No 1272/2008 CLP:**

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

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.

P403 Store in a well-ventilated place.

Additional information:

Paragraph 1.3.2. CLP Regulation 1272/2008/EC


If propane, butane and liquefied petroleum gas or a mixture containing these substances classified in accordance with the criteria of this Annex, is placed on the market in closed refillable cylinders or in nonrefillable cartridges within the scope of EN 417 as fuel gases which are only released for combustion (current edition of EN 417, relating to 'Non-refillable metallic gas cartridges for liquefied petroleum gases, with or without a valve, for use with portable appliances; construction, inspection, testing and marking'), these cylinders or cartridges shall only be labelled with the appropriate pictogram and the hazard and precautionary statements concerning flammability.

No information concerning the effects on human health and the environment is required on the label. Instead the supplier shall provide the information concerning effects on human health and the environment to downstream users or distributors by means of the safety data sheet (SDS).

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 included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or has not been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or higher than 0.1%.

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Description:** Mixture: consisting of the following components.**Ingredients according Regulation (EU) 2020/878:**

CAS: 68476-86-8	Petroleum gases, liquefied, sweetened	50-100%
EINECS: 270-705-8	 Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
Reg.nr.: 01-2119490743-31-XXXX		

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CAS: 75-08-1 EINECS: 200-837-3 Index number: 016-022-00-9 Reg.nr.: 01-2119491286-30-XXXX	ethanethiol ⚠ Flam. Liq. 2, H225; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H332 substance with a Community workplace exposure limit	0.0014%
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SVHC

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

Take affected persons out of danger area and lay down.

Take affected persons out into the fresh air.

After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

In case large quantity is inhaled move contaminated patient to fresh air. Keep him warm and still.

Supply fresh air and to be sure call for a doctor.

After skin contact:

Do not attempt to remove sticking garments due to frost. Rinse with lukewarm water (Temperature around 40 °C). Continue rinsing for at least 15 minutes. If no lukewarm is available, do not rinse with water. Cover the affected area with sterile gauze or clean clothing.

After eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses.

Continue to rinse for at least 15 minutes.

Get medical attention if irritation occurs.

Avoid strong water jet-risk of cornea damage, consult a doctor.

After swallowing:

Do not induce vomiting.

Immediately rinse the mouth with water.

Never give anything by mouth to an unconscious person.

Consult the doctor immediately and show the label or this Safety Data Sheet.

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:**

Where possible and if safe, stop the gas flow. If the flow cannot stop, allow the fire to burn out, while taking care to cool the containers and surroundings with water spray.

LARGE FIRE: Use water spray, water mist or foam.

SMALL FIRE: Dry powder or carbon dioxide (CO₂), dry sand or fire extinguishing foam.

For safety reasons unsuitable extinguishing agents:

Water with full jet

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Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

5.2 Special hazards arising from the substance or mixture

Inadequate cooling of the containers results in a rapid increase in pressure caused by evaporation of its contents and the increase in temperature in the tank. This causes the full container rupture followed by mass ignition and explosion (BLEVE).

Hazardous combustion products: carbon monoxide, carbon dioxide and unburnt hydrocarbons (Smoke).

5.3 Advice for firefighters**Protective equipment:**

In the event of a large fire or in closed or poorly ventilated areas, wear full fireproof protective clothing and self-contained breathing apparatus (SCBA) with full facepiece that works in positive pressure mode beyond the classic fire extinguishing tools.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Cool the packing containers with large amounts of water for a long time. Move away immediately to case of increased sound from the safety vents or discoloration of the tank. ALWAYS stay away from tanks that are engulfed in flames.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

Avoid inhalation of vapors.

Avoid contact with spilled material.

Avoid contact with oxidising agents.

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Wear protective clothing.

6.1.2 For emergency responders

General Information: Spills of the material produce large quantities of highly flammable gases which are heavier than air and will accumulate in low-lying areas or confined spaces. When there is a suspicion that dangerous quantities are present H₂S and/or CO around the spilled product, additional or special actions may be mandated, including restricted access, the use of special protective equipment, procedures and staff training.

Fire: Vapors are vapors are denser than air. Cylinders or other holding containers may explode under fire conditions - use water spray to cool closed containers. Do not allow extinguishing agent to reach sewers or watercourses - may cause Hazard explosion in drains and can be reheated.

Do not allow extinguishing water to reach sewers or watercourses - it may cause explosion hazard in drains and may reheat.

6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Spills in water or at sea:

Prevent further leakage and dispersal if safe to do so.

Leakage of the liquid product into water could lead to a rapid and complete evaporation of it product. Isolate the area and prevent fire / explosion hazard to ships and others structures, taking into account the direction and speed of the wind, until the material dissolves completely.

6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

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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**

Open and handle receptacle with care.

Handle with care. Avoid jolting, friction and impact.

Danger explosive mixtures of vapors and air.

A specific assessment of the inhalation hazard from the presence of H₂S and / or CO in empty spaces of the tank, in confined spaces, product residues, waste of the tank and waste water, and in the non-intentional release, must be done to help in determining appropriate controls for local conditions. Cleaning, inspection and maintenance of the internal structure of the storage tanks must be done only with appropriate equipment and specialized personnel, as defined by the nationals, local regulations or company regulations. Handle empty containers with care: residual vapors may be flammable.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Do not spray onto a naked flame or any incandescent material.

Flammable gas-air mixtures may form in empty receptacles.

Keep it in a dry, cool, well ventilated, fixed in advance place, away from sources of heat, flames, ignition and direct sunlight.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in the delivered bottles or approved containers. Cylinders must be secured vertically - and only transported in a safe position in a well-ventilated vehicle or hand truck. Bottles that have been opened should be closed carefully and stored upright. For maintenance or preservation work, the tanks must be emptied and purged with inert gas (i.e., nitrogen).

Storage:**Requirements to be met by storerooms and receptacles:**

Store in a cool location.

The substance must be stored in a specially designed container under pressure (spherical containers, cylindrical containers, bottles), according to the relevant regulations.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from flammable substances.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store under lock and key and with access restricted to technical experts or their assistants only.

Store under lock and key and out of the reach of children.

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

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SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 75-08-1 ethanethiol**

WEL (Great Britain)	Short-term value: 5.2 mg/m ³ , 2 ppm Long-term value: 1.3 mg/m ³ , 0.5 ppm
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8.2 Exposure controls**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

When cleaning and checking the equipment, as well as in the event of loss, use breathing apparatus (EN 137).

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. In case of hand contact with droplets of the cold product, use special gloves for low temperatures (EN 60903).

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 mixture 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.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection

Use goggles or face shields to protect the eyes from liquid product droplets (EN 166, CR 13464). Use a full face mask with hydrocarbon filters in minor spill cases (EN 136 and 141 respectively).

Body protection:

Use of suitable protective clothing (EN 340, 465, 466, 467), protective boots (EN 345, 346) and impermeable PVC or nitrile gloves (EN 420, 388) when performing her general work. In the event of a large fire, it is necessary to use a fire-resistant waterproof suit (EN 469, 533, 1486) and breathing apparatus (EN 137).

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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information**

Physical state	Gas
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined
Melting point/freezing point:	-187.6 - -138 °C
Boiling point or initial boiling point and boiling range	Not determined
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	1.8 Vol %
Upper:	15 Vol %
Flash point:	-60 °C
Auto-ignition temperature:	287 - 537 °C
Decomposition temperature:	Not determined
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Dynamic:	Not determined
Solubility	
water at 20 °C:	24.4 - 60.4 mg/l
Partition coefficient n-octanol/water (log value)	1.09 - 2.8 log POW
Vapour pressure at 40 °C:	505 hPa
Density and/or relative density	
Density:	Not determined
Relative density at 25 °C	0.4228-0.589 g/cm ³
Vapour density	Not determined

9.2 Other information**Appearance:****Form:** 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.

Cloud point / clarification point:**Oxidising properties**

Not oxidising

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

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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** Stable under normal conditions**10.2 Chemical stability****Thermal decomposition / conditions to be avoided**

To avoid thermal decomposition do not overheat.

Stable at environment temperature.

10.3 Possibility of hazardous reactions No dangerous reactions known.**10.4 Conditions to avoid**

The product should not be exposed to high temperatures, sparks, flame and electrostatic charges.

10.5 Incompatible materials

Halogens

Oxidizing agents

10.6 Hazardous decomposition products

Carbon monoxide (CO)

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.**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.**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

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SECTION 12: Ecological information**12.1 Toxicity**

Short-term toxicity to fish: Estimated LC50 = 24.11 to 147.54 mg / L in fresh water.

Short-term toxicity to aquatic invertebrates: Estimated 96-hour LC50 = 7.02 to 69.43 mg/L

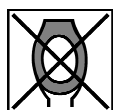
Toxicity to aquatic algae and cyanobacteria: EC50 = 7.71 - 16.5 mg / l

Aquatic toxicity: No further relevant information available.**12.2 Persistence and degradability** No further relevant information available.**12.3 Bioaccumulative potential** Not bioaccumulative.**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 included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or has not been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or higher than 0.1%.

12.7 Other adverse effects**Additional ecological information:****General notes:** Do not allow product to reach ground water, water course or sewage system.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation**

Dispose according to National Regulations.



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****14.1 UN number or ID number**

ADR, IMDG, IATA

UN2037

14.2 UN proper shipping name

ADR

2037 RECEPTACLES, SMALL, CONTAINING GAS
(GAS CARTRIDGES)

IMDG, IATA

RECEPTACLES, SMALL, CONTAINING GAS (GAS
CARTRIDGES)

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14.3 Transport hazard class(es)

ADR



Class 2 5F 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.
EMS Number: F-D,S-U

**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 2
Tunnel restriction code B/D

IMDG

Limited quantities (LQ) 120 ml
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
 REACH Regulation 1907/2006/EC
 Regulation (EU) 2020/878
 CLP Regulation 1272/2008/EC

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Constituents of the mixture that fall within the scope of REACH Regulation 1907/2006/EC, have been (pre)-registered.

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.

National regulations:**Other regulations, limitations and prohibitive regulations****Substances of very high concern (SVHC) according to REACH, Article 57**

It doesn't contain substances of very high concern (SVHC).

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.

Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Training hints

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

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Classification according to Regulation (EC) No 1272/2008

Flammable gases | Expert judgement

Department issuing SDS:

SUST  SUSTCHEM S.A.
CHEM REACH & Chemical Services Department
CONSULTING A: 144, 3rd Septemvriou, GR 112 51 | Athens, Greece
 T: +30 210 8252510 | F: +30 210 8252575
 W: www.sustchem.gr | E: info@suschem.gr

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
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 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
 Flam. Liq. 2: Flammable liquids – Category 2
 Acute Tox. 4: Acute toxicity – Category 4
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

EN