

BUTANE AND MIXTURES

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) amended by Regulation (UE) 2015/830

Date of issue: 02/07/2019 Revision date: 06/04/2020 Replaces the data sheet: 09/01/2018 Version:12.0

Product form	: Substance
Trade name	: BUTANE AND MIXTURES Butane, Butane Propane, Mixed Butane-Propane, Performance, Extreme, Hyperperformance
Product group	: Commercial product
Presentation/packaging	: Containers conform to existing regulations.

Type of containers	Contained gas			
	Butane	Butane Propane	Mixed Butane-Propane / Performance	Hyperperformance / Extreme
TANKS				
Campinggaz 901 -904 -907	X			
GAS CARTRIDGES				
Campinggaz GT 106 (90 g)		X		
Campinggaz C206 (190 g)	X	X		
Campinggaz CV206 (190 g)		X		
Coleman C190 (190 g)		X		
Coleman C190 GLS (190 g)		X		
Campinggaz C206GLS	X			
Campinggaz C206GLS Super		X		
Campinggaz CT200		X		
Coleman C100 (97 g)			X	
Coleman C250 (220 g)			X	
Coleman C500 (440 g)			X	
Campinggaz CV270 (230 g)	X	X		
Campinggaz CV270 Plus (230 g)	X	X		
Campinggaz Theophilos (240 g)	X			
Campinggaz CV300 Plus (240g)		X		
Campinggaz CV360 (52g)	X			
Campinggaz CV470 (450 g)	X	X		
Campinggaz CV470 Plus (450 g)	X	X		
Campinggaz CG1750 (170 g)			X	
Campinggaz CG3500 (350 g)			X	
Campinggaz CP250 (250 g)	X			
Campinggaz CP250 & CP250 SP (220 g)	X			
Campinggaz EL Greco CV470 (450g)	X			
Campinggaz EL Greco CV470 plus (450g)	X			
Taymar-Campinggaz T 1750 (170 g)			X	
Taymar-Campinggaz T 3500 (350 g)			X	
Taymar-Campinggaz RF 80 (185 g)	X			
Taymar-Campinggaz RF 89 (277 g)	X			
Taymar-Campinggaz RF 90 (350 g)	X			
Instafiam 190 (190g)	X			
Instafiam 190 GLS (190g)	X			
Flama 190 (190g)	X			
Campinggaz CG1750 HY (170 g)				X
Campinggaz CG3500 HY (350 g)				X

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Campingaz CG3500 GA (350 g)			X	
Coleman C100 Performance (97 g)			X	
Coleman C300 Performance (240 g)			X	
Coleman C100 Extreme (97 g)				X
Coleman C100 Extreme 2.0 (100 g)				X
Coleman C300 Extreme (230g)				X
Coleman C500 Performance (440g)			X	

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

1.2.1. Relevant identified uses

Intended for general public.

Main use category: : Consumer use, Professional use.

Use of the substance/mixture : LIQUEFIED OIL GAS

Function or category of use : Combustible

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

APPLICATION DES GAZ / CAMPINGAZ

219, Route de Brignais
69563 ST GENIS LAVAL – France

T + 33 (0) 4 78 86 88 94 - F + 33 (0) 4 78 86 88 84

info@coleman.eu / infobnl@coleman.com - www.campingaz.com

1.4. Emergency Telephone Number

United Kingdom: +356 2545 4030

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable gases, category 1 H220

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

Contains gas under pressure; may explode if heated. Extremely flammable gas.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

Signal word (CLP)

: Danger

Hazard Statements (CLP)

: H220 - Extremely flammable gas.

Precautionary Statements (CLP)

: 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 source.
P403 - Store in a well-ventilated place.

Child safety lock

: Not applicable

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Hazard indications detectable by touch : Applicable: does not apply to transportable gas containers.

2.3. Other hazards

Butane and its mixtures are produced, stored, transported and distributed under pressure in liquefied form. They are never subjected, under normal conditions, to direct handling because they are confined, without interruption, in closed systems until final destruction by combustion (use).

The precautions to take are, above all, to maintain containment. However, certain specific precautions are indicated to prevent or deal with accidental venting resulting from possible leaks.

Physico-chemical properties Extremely flammable

In the event of a leak, the gas, heavier than air, collects in the lower parts, in the absence of ventilation. The intense heating of a container can lead to its rupture and to the spreading of the product; ignition of vapors may cause deflagration or explosion.

Danger for humans In the gaseous state: Inhalation of vapors at high concentration can cause drowsiness, intoxication, narcosis and in extreme cases, coma due to oxygen depletion (anesthetic and asphyxiating effect). In the liquid state: Burns from the cold, especially in the event of projection.

Environmental hazard No known hazard under normal conditions.

SECTION 3: Composition/information on ingredients

3.1. Substances

Remarks : Listed in Annex IV/V of REACH, exempt from registration
Hydrocarbon mixtures mainly composed of butanes, butenes, propane and propene, odorized by mercaptan.

Name	Product identifier	%
Hydrocarbons rich in C3-4, petroleum distillate; petroleum gas; [complex combination of hydrocarbons obtained by distillation and condensation of crude oil. Consists of hydrocarbons containing between 3 and 5 carbon atoms (C3-C5) and predominantly 3 to 4 carbon atoms (C3-C4).] (Note K) (Note U).	(N° CAS) 68512-91-4 (N° EC) 270-990-9 (N° Index) 649-083-00-0 (N° REACH) exempt from registration requirement	100

Note K: The classification as carcinogenic or mutagen may not apply if it can be shown that the substance contains less than 0.1% w/w of 1,3-butadiene (Einecs No 203-450-8). If the substance is not classified as carcinogenic or mutagenic, at least the precautionary statements (P102-) P210-P403 should be applied. This note applies only to certain complex petroleum-based substances referred to in Part 3.

Note U (Table 3): When placed on the market, gases must be classified as "pressurized gas" in one of the following groups: "compressed gas", "liquefied gas", "refrigerated liquefied gas" or "dissolved gas". The assignment to a group depends on the physical state in which the gas is packaged and, therefore, must be done on a case-by-case basis.

Texts of H-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General first aid : Call a poison control center or doctor if you feel unwell.

First-aid measures after inhalation : Transport person outside and keep them in a position where they can comfortably breathe. Respiratory disorders: consult a doctor/medical service. Give oxygen or give artificial respiration if necessary.

First aid after skin contact : Immediately call a POISON CENTER/doctor. Rinse skin with plenty of water or take a shower. In case of frostbite, spray with water for at least 15 minute. Apply a sterile dressing. Obtain medical assistance. If the clothes stick to the skin, do not remove them. Remove contaminated clothing, wash the skin with plenty of water or shower (for 15 minutes), and if necessary go to the doctor. Wash the skin with plenty of water.

First aid after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if victim is wearing them and if they can be easily removed. Continue to rinse. Immediately call a POISON CENTER/doctor. Flush eyes with water as a precaution.

First aid after ingestion : Ingestion unlikely. Call a poison control center or doctor if you feel unwell.

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

Symptoms/effects : May cause drowsiness or dizziness. May have narcotic effects in low concentrations. Symptoms can include dizziness, headache, nausea, and loss of coordination.

Symptoms/effects after skin contact : Contact with liquefied gas causes frostbite.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

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SECTION 5: Firefighting measures

For Classified Installations for the Protection of the Environment (ICPE), it is necessary to comply with the applicable provisions indicated by the texts on Classified Installations.

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Water spray. Dry powder.

Not recommended : Stick water.

Unsuitable extinguishing media : Do not use foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable gas.

Danger of explosion : Contains gas under pressure; may explode if heated.

Hazardous decomposition products in case of fire : Incomplete combustion produces in particular toxic carbon monoxide (CO), the inhalation of which is dangerous. Under certain conditions, intense accidental heating (in the event of a fire, for example) of a butane container can lead to the rupture and dispersion of the product, the ignition of which may lead to an explosion.

5.3. Advice for firefighters

Fire precautions : Evacuate area

Firefighting instructions : Try to stop the leak without risk. Eliminate all sources of ignition if safe to do so. Leaking ignited gas: Do not extinguish, unless leak can be stopped safely.

Protection in case of fire : Do not intervene without suitable protective equipment. Self-contained breathing apparatus. Full body protection.

Other information : Gas or vapor heavier than air. May accumulate in confined areas, especially in low spots and basements. From the start of the fire, remove flammable materials and exposed LPG containers. Massively cool the non-drained containers with water spray. **Do not use stick water on tanks**, if they have been heated. If a container connected to a user device catches fire, do not throw it or overturn it, which would aggravate the danger (outflow of liquid gas, rupture of the container, etc.). Never put a tank on fire, because the butane would then burn in the liquid phase. Keep people away. Try to close the tap while protecting yourself, in particular your hands and forearms or extinguish the flame only if you are sure you can close the tap. Protection of responders Protect personnel with fire-fighting clothing, water curtains or non-combustible screens.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all sources of ignition. Keep unnecessary staff away. Evacuate the area. Isolate from fire, if possible, without taking unnecessary risks. Avoid contact with skin and eyes. Gas or vapor heavier than air. May accumulate in confined areas, especially in low spots and basements. Stay upwind and away from the source. Heavy vapors! Close all low openings nearby (air vents, manholes, etc.).

Keep combustible materials away and, if possible, exposed LPG containers. Close any low openings nearby (air vents, drains). Call in specialist help. Leak on a container: If the leak cannot be stopped by operating the appliance tap, evacuate the leaking container without impact, outside and place it in a safe place without spilling it.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spill area. Evacuate the area. Avoid contact with the skin. No open flames, no sparks and no smoking.

6.1.2. For emergency responders

Protective equipment : Do not intervene without suitable protective equipment. If possible, shut off the fuel source and allow the combustion to stop on its own. For more information, see section 8: "Exposure controls and personal protection".

6.2. Environmental precautions

Avoid release into the environment.

6.3. Methods and material for containment and cleaning up

Cleaning procedures : LPGs do not present any known danger to the environment due to their immediate evaporation and very low solubility in water. Gas accidentally released into the atmosphere quickly dilutes and undergoes photochemical decomposition

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6.4. Reference to other sections

For more information, see section 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Wear personal protective equipment. Do not handle until all safety precautions have been read and understood. Observe safety instructions. Keep containers closed when not in use. Use standing bottles. Never use them tilted more than 45 °. Do not reuse empty containers. Keep away from heat, hot surfaces, sparks, open flames and all other sources of ignition. No smoking. Eliminate all sources of ignition if safe to do so.

Avoid the accumulation of electrostatic charges. Any transfer, loading or unloading of the vehicle must only be carried out by personnel trained for this purpose and in accordance with appropriate procedures. Observe the instructions on the containers. Use only in well ventilated rooms to allow the evacuation of smoke and combustion residues (CO, Co2). Use only with the appropriate devices indicated on the containers. Always use the containers vertically so as to avoid intrusion of the liquid phase into the installations intended for the gaseous phase.

In case of discontinuous use, close the container tap after use. The characteristic odor makes it possible to detect gas from a concentration of 0.5% in the air. As soon as the characteristic odor appears, look for the leak with soapy water or suitable products. Never look for a leak with a flame. Never try to fill an empty container. Do not heat the containers. Use only butane regulators corresponding to the pressure set by the operating devices. Never weld on a butane container. Never heat a container or piping containing gas with an open flame.

Hygiene measures

: Do not eat, drink or smoke when using this product. Wash hands after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

Comply with current regulations. Follow proper grounding procedures to avoid static electricity.

Store the butane in accordance with the appropriate regulations depending on the nature and the quantities stored. If storage is important, it may fall under the Regulations for Classified Installations for the Protection of the Environment (ICPE) and must be declared or authorized. It is then necessary to comply with the applicable provisions indicated by the texts on Classified Installations.

Storage conditions

: Protect from sunlight. Store in accordance with local regulations. Store in a well-ventilated area. Keep cool.

Store in a well-ventilated place, away from any source of heat or ignition. Do not expose the containers to a temperature higher than 50 ° C.

Do not store below ground level (cellar or basement for example) Store away from low points where vapors can accumulate.

Do not keep containers in a vehicle (heating in the sun). Avoid contact with strong oxidizing agents and the proximity of other combustible materials.

Use only containers and tanks intended for butane and in accordance with regulations.

Use suitable electrical equipment (explosion-proof, intrinsic safety, etc.) in hazardous areas.

Incompatible products

: Strong oxidizing agents.

Incompatible materials

: combustible materials.

Storage temperature

: < 50 °C

Heat and sources of ignition

: Keep away from open flames, hot surfaces and sources of ignition.

7.3. Specific end uses

Not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

All work on butane installations must be undertaken by trained personnel and in compliance with safety rules and work procedures.

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Exposure limit values

French professional average exposure limit values (VME) for **butane**: VME = 800 ppm, or 1900 mg/m³.

8.2. Exposure controls

Appropriate engineering controls:

Appropriate engineering controls: No open flames, no sparks and no smoking. Ensure good ventilation of the work station.

Protective clothing - material selection:

Helmet for intervention on storage or loading or unloading operations. Flame retardant antistatic protective suit.

Hand protection:

The choice of a suitable glove does not only depend on the material, but also on other quality characteristics and it differs from one manufacturer to another. Penetration time to be determined with the glove manufacturer.
protective gloves against cold (leather for example).

Eye protection:

Safety glasses with side shields or face shield in case of risk of projection. Well adjustable glasses.

Skin and body protection:

Wear fire/flame/flame retardant clothing. anti-static safety shoes.

Respiratory Protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls:

Avoid release into the environment

Other information:

Only persons with the appropriate experience and training can handle gases under pressure.

SECTION 9: Physical and chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	: Gaz
Appearance	: Liquid under pressure.
Colour	: Colorless.
Odour	: Caractéristique Caractéristique
Odour threshold	: The Product Is Treated To Emit A Characteristic Odor
pH	: Not available
Relative evaporation rate (butyl acetate = 1	: Not available Butane: 1 liters of liquid butane put at atmospheric pressure generates a vapor volume of approximately 230 liters.
Melting point/freezing point	: Not available
Boiling point	: -27 to -3 °C 1 atm
Flash point	: < -50 °C
Auto-ignition temperature	: > 400 °C
Decomposition temperature	: Not available
Flammability (solid, gas)	: Extremely Flammable Gas.
Vapour pressure	: 2,05 to 3,45 bar 15°C
Vapour pressure at 50 °C	: 6,9 - 10 bar
Relative vapor density at 20 °C	: Not available
Relative density	: Not available
Density	: 0,482 - 0,525 kg/l 50°C
Relative Gas Density	: 1,8 - 2,01 T=15°C - P=1 bar
Solubility	: Slightly Soluble In Water.
Log Pow	: Not available
Kinematic viscosity	: Not available
Viscosity, dynamic	: Not available
Explosive properties	: Not available

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Oxidising properties	: Not available
Lower explosion limit (LEL):	: 1,5 vol %
Upper explosion limit (LES) :	: 8,8 vol %

	Butane	Super butane	Mixture Butane - Propane / Performance	Hyperperformance / Extreme
Boiling To under 1 atm. approx.	-3°C	-18°C	-23°C	-27°C
Relative vapour pressure (bar)max. at 15°C approx	2,05	2.32	2.69	3.45
Relative vapour pressure (bar)max. at 50°C approx	6.9	7.5	8.3	10
Density (liquid at 50°C) kg/l min.	0.525	0.513	0.500	0.482
Density (T° = 15°C, P = 1 atm) approx.	2.01	1.95	1.89	1.84

9.2. Autres informations

Not available

SECTION 10: Stability and Reactivity

10.1. Reactivity

Extremely flammable gas.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Remove all sources of ignition.

10.5. Incompatible materials

Combustible materials. Strong oxidants.

10.6. Hazardous decomposition products

No hazardous decomposition products should be generated under normal conditions of storage and use.

Products of combustion include water vapor and carbon dioxide. Carbon monoxide (toxic) is released during poor combustion.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not applicable LPG is contained in closed containers until their destruction by combustion, the danger exists only in the event of accidental leakage with the dominant risk being the ignition of vapors in the air.
Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met) Risk of drowsiness, drunkenness, narcosis and, in the extreme, coma by inhalation of high concentration vapors.
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met Lésions oculaires
Serious eye damage/eye irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified

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Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: This product is not considered to be toxic to aquatic organisms and does not cause long-term adverse effects in the environment. LPGs do not present any known danger to the environment due to their immediate evaporation and very low solubility in water. Gas accidentally released into the atmosphere quickly dilutes and undergoes photochemical decomposition.

Acute aquatic toxicity

: Not classified (Based on available data, the classification criteria are not met).

Chronic aquatic toxicity

: Not classified (Based on available data, the classification criteria are not met).

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

: Ensure that all national or local regulations are observed.

Waste treatment methods

: Do not puncture or burn the packaging, even empty, after use. Handle empty containers with care, as residual vapors are flammable. The recommended method of disposal is combustion in a flaring system. Dispose of the contents/container in accordance with the sorting instructions of the approved collector.

Emptying of a container should only be carried out by specially trained personnel in accordance with appropriate procedures and facilities. The safest means is the combustion of gases using special devices (eg torch).
Observe waste regulations for the disposal of empty cartridges.

Packaging material: CV 360, MAX 300: aluminum body.
Other cartridges: sheet steel.
Refillable tanks: steel.

SECTION 14: Transport information

In accordance with ADR/RID/IMDG/IATA/ADN requirements.

When transporting gas containers for private use, observe the instructions written on the containers, in particular not to leave the gas containers in vehicles in the sun or during hot weather.

All containers meet the requirements of transport regulations.

For transport in quantities, follow the prescriptions of the appropriate regulations (land, sea or air).






TANKS

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1965	UN 1965	UN 1965	UN 1965	UN 1965
14.2. UN proper shipping name				
HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S.	HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S.	HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S	HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S	HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S


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Transport document description				
UN 1965 HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S. 2.1, (B/D)	UN 1965 HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S., 2.1	UN 1965 HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S., 2.1	UN 1965 HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S., 2.1	UN 1965 HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S., 2.1
14.3. Transport hazard class(es)				
2.1	2.1	2.1	2.1	2.1
				
14.4. Packing group				
Not determined.	Not determined.	Not determined.	Not determined.	Not determined.
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No additional information available				
14.6. Special precautions for user				

Transport by land

Classification code (ADR)	: 2F
Special provisions (ADR)	: 274, 583, 652, 660, 662
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P200
Provisions relating to joint packaging (ADR)	: MP9
Instructions for portable tanks and bulk containers (ADR)	: (M), T50
Tank code (ADR)	: PxBN(M)
Special provisions for tanks (ADR)	: TA4, TT9
Vehicle for tank transport	: FL
Transport category (ADR)	: 2
Special transport provisions - Loading, unloading and handling (ADR)	: CV9, CV10, CV36
Special transport provisions - Operation (ADR)	: S2, S20
Hazard identification number (Kemler code)	: 23
Orange panels	: 

Tunnel restriction code (ADR) : B/D

Maritime transport

Special provisions (IMDG)	: 274
Packing instructions (IMDG)	: P200
Tank instructions (IMDG)	: T50
FS number (Fire)	: F-D
FS number (Spill)	: S-U
Loading category (IMDG)	: E
Stowage and handling (Code IMDG)	: SW2
Properties and observations (IMDG)	: Liquefied flammable hydrocarbon gas obtained from natural gas or by distillation of mineral oils or coal, etc. May contain propane, cyclopropane, propylene, butane, butylene, etc., in varying proportions. Heavier than air

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Air Transport

Excepted passenger and cargo aircraft (IATA)	: E0
Limited quantities passenger and cargo aircraft (IATA)	: Prohibited
Net quantity max. for limited quantity passenger and cargo aircraft (IATA)	: Prohibited
Passenger and Cargo Aircraft Packing Instructions (IATA)	: Prohibited
Net quantity max. for passenger and cargo aircraft (IATA)	: Prohibited
Cargo plane only (IATA) packing instructions (IATA)	: 200
Max quantity net cargo plane only (IATA)	: 150kg
Special provisions (IATA)	: A1
ERG code (IATA)	: 10L

Water transport

Classification code (ADN)	: 2F
Special provisions (ADN)	: 274, 583, 660, 662
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Transport allowed (ADN)	: T
Required equipment (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1

Rail transport

Classification code (RID)	: 2F
Special provisions (RID)	: 274, 583, 660, 662
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P200
Special transport provisions - Loading, unloading and handling (RID)	: MP9
Instructions for portable tanks and bulk containers (RID)	: T50(M)
Special provisions for RID tanks RID (RID)	: TU38, TE22, TA4, TT9, TM6
Transport category (RID)	: 2
Special transport provisions - Loading, unloading and handling (RID)	: CW9, CW10, CW36
Express parcel (RID)	: CE3
Hazard identification number (RID)	: 23

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not determined.






GAS CARTRIDGES

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 2037	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)	Gas cartridges	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)

BUTANE ET MELANGES : Butane, Butane Propane, Mélange Butane-Propane, Performance, Extreme, Hyperperformance

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Transport document description				
UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES), 2.1, (D)	UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES), 2.1	UN 2037 Gas cartridges, 2.1	UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES), 2.1	UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES), 2.1
14.3. Transport hazard class(es)				
LQ	LQ	LQ	LQ	LQ
				
14.4. Packing group				
Not determined.	Not determined.	Not determined.	Not determined.	Not determined.
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No additional information available				
14.6. Special precautions for user				

Transport by land

Classification code (ADR) : 5F
 Special provisions (ADR) : 191, 303, 344
Limited quantities (ADR) (LQ) : 1L
 Excepted quantities (ADR) : E0
 Packing instructions (ADR) : P003
 Special packing provisions (ADR) : PP17, RR6
 Provisions relating to joint packaging (ADR) : MP9
 Transport category (ADR) : 2
 Special transport provisions - Loading, unloading and handling (ADR) : CV9, CV12
 Special transport provisions - Operation (ADR) : S2
 Tunnel restriction code (ADR) : D

Maritime transport

Special provisions (IMDG) : 191, 277, 303, 344
 Packing instructions (IMDG) : P003
 Special packing provisions (IMDG) : PP17
 FS number (Fire) : F-D
 FS number (Spill) : S-U
 Loading category (IMDG) : B
 Stowage and handling (Code IMDG) : SW2
 Properties and observations (IMDG) : Normally contain mixtures of liquefied Butane and Propane in various proportions for use in camping stoves, etc.

Air Transport

Excepted passenger and cargo aircraft (IATA) : E0
 Limited quantities passenger and cargo aircraft (IATA) : Y203
 Net quantity max. for limited quantity passenger and cargo aircraft (IATA) : 1kg
 Passenger and Cargo Aircraft Packing Instructions (IATA) : 203
 Net quantity max. for passenger and cargo aircraft (IATA) : 1kg

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Cargo plane packaging instructions only (IATA)	: 203
Max quantity net cargo plane only (IATA)	: 15kg 15kg
Special provisions (IATA)	: A167, A802
ERG code (IATA)	: 10L

Water transport

Classification code (ADN)	: 5F
Special provisions (ADN)	: 191, 303, 344
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E0
Required equipment (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	1

Rail transport

Classification code (RID)	: 5F
Special provisions (RID)	: 191, 303, 344
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P003
Special packing provisions (RID)	: PP17, RR6
Special provisions relating to joint packaging (RID)	: MP9
Transport category (RID)	2
Special transport provisions - Loading, unloading and handling (RID)	: CW9, CW12
Express parcel (RID)	: CE2
Hazard identification number (RID)	23

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not determined.

SECTION 15: Regulatory information

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

15.1.1. EU regulations

The following restrictions apply according to Annex XVII to Regulation (EC) No. 1907/2006 (REACH):

40. Substances classified as flammable gases, category 1 or 2, flammable liquids, category 1, 2 or 3, flammable solids, category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids, category 1, or pyrophoric solids, category 1, whether or not listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008.

BUTANE AND MIXTURES Butane, Butane Propane, Butane-Propane mixture, Performance, Extreme, Hyperperformance - Hydrocarbons rich in C3-4, petroleum distillate; petroleum gas; [complex combination of hydrocarbons obtained by distillation and condensation of crude oil. Consists of hydrocarbons containing between 3 and 5 carbon atoms (C3-C5) and predominantly 3 to 4 carbon atoms (C3-C4).]

BUTANE ET MELANGES is not on the REACH Candidate list

BUTANE ET MELANGES is not listed in Annex XIV of REACH

BUTANE ET MELANGES is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of dangerous chemicals

BUTANE ET MELANGES is not subject to regulation (EC) n ° 850/2004 of the European Parliament and of the Council of April 29, 2004 concerning persistent organic pollutants and amending directive 79/117/EEC

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : 18. Flammable liquefied gases, category 1 or 2 (including LPG), and natural gas

15.1.2. National regulations

National directives: Ensure that all national or local regulations are observed

BUTANE ET MELANGES : Butane, Butane Propane, Mélange Butane-Propane, Performance, Extreme, Hyperperformance

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France			
ICPE Number	Classified installations Designation of the item	Regime code	Department
1414.text	Liquefied flammable gases (filling or distribution installation)		
1414.1	1. filling systems for bottles or containers	A	1
1414.2a	2. Installations serving a storage of flammable gas (including underground storage): a) Loading or unloading installations serving a flammable gas depot subject to authorization	A	1
1414.2b	2. Installations serving a storage of flammable gas (including underground storage): b) Installations other than those referred to in 2. a, when the maximum number of loading and unloading operations is greater than or equal to 20 per day or greater than or equal to 75 per week	A	1
1414.2c	2. Installations serving a storage of flammable gas (including underground storage): c) Installations other than those referred to in 2. a and 2. b, when the maximum number of loading and unloading operations is greater than or equal to 2 per day	DC	
1414.3	3. installations for filling tanks supplying motors or other devices of use comprising safety devices (gauges and valves)	DC	
1414.4	4. Tank loading or unloading installations, except those operated solely for the purpose of tank maintenance, the tanks being defined by the regulations relating to the transport of dangerous goods by road (ADR) or by rail (RID)	A	1
4718.text	Liquefied flammable gases of category 1 and 2 (including LPG) and natural gas (including refined biogas, when it has been treated in accordance with the applicable standards for purified and refined biogas, ensuring a quality equivalent to that natural gas, including the methane content, and that it has a maximum oxygen content of 1%). The total quantity likely to be present in the installations including in the underground cavities (strata natural resources, aquifers, saline cavities and disused mines) being:		
4718.1	1. Greater than or equal to 50 t Low threshold quantity within the meaning of article R. High threshold quantity within the meaning of article R. 511-10 : 200 t.	A	1
4718.2	2. Greater than or equal to 6 t but less than 50 t Low threshold quantity within the meaning of article R. 511-10 : 50 t. High threshold quantity within the meaning of article R. 511-10 : 200 t.	DC	1

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes :			
Item	Modified element	Modification	Notes
2-15-16		Ajouté/ modifié	
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.		
CLP	Regulation on classification, labeling and packaging; regulation (EC) n ° 1272/2008.		
LOAEL	Minimum dose with harmful effect observed.		
LD50	Median lethal dose for 50% of the test population (median lethal dose).		
SDS	Safety data sheet.		
IATA	International Air Transport Association.		
IMDG	International Maritime Dangerous Goods code.		

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According to Regulation (EC) No. 1907/2006 (REACH) amended by Regulation (UE) 2015/830

REACH	Registration, evaluation, authorization and restriction of chemical substances. (EU) REACH Regulation No 1907/2006.
RID	International Regulations concerning the transport of dangerous goods by rail
vPvB	Very persistent and very bioaccumulative
BCF	Bioconcentration Factor
CIRC	International Center for Research on Cancer.
CL50	Lethal concentration for 50% of the tested population (median lethal concentration).
DMEL	Derived dose with minimum effect. Derived dose with minimum effect.
DNEL	Derived dose without effect
EC50	Effective median concentration
ETA	Acute toxicity estimate
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	Dose with no observed adverse effect
NOEC	Concentration without observed effect
PBT	Persistent, Bioaccumulative and Toxic
OECD	Organization for Economic Co-operation and Development
PNEC	Predicted Concentration (s) No Effect
STP	Wastewater treatment plant
TLM	Median limit tolerance

Sources for data : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, amending and repealing directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006. 11 ATP inserted/updated.

Training advice : Follow the advice for use, storage, maintenance and replacement. This product is exclusively intended for the use described on the packaging.

Other information : Ensure that all national or local regulations are observed. The information given in this safety data sheet is based on the state of our current knowledge and on our experience. **DISCLAIMER OF RESPONSIBILITY**
The information contained in this sheet comes from sources that we consider to be reliable. However, they are provided without any warranty, express or implied, of their accuracy. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may not be the responsibility of our expertise. It is for these reasons among others that we decline all responsibility in the event of loss, damage or costs occasioned by or linked in any way to the handling, storage, use or disposal of the product. This SDS has been prepared and should only be used for this product. If the product is used as a component of another product, the information contained therein may not be applicable.

Full text of H and EUH phrases :	
Flam. Gas 1	Flammable gases, category 1.
H220	Extremely flammable gas.

EU SDS (Annex II REACH).

This information is based on our current knowledge and describes the product for the sole purposes of health, safety and the environment. They should therefore not be interpreted as guaranteeing any specific property of the product.