



# **PRODUCT SAFETY DATA SHEET**

### **BUTANE AND MIXTURES**

# Specific risk : EXTREMELY FLAMMABLE

### 1. Product identification

Name Nature Presentation Butane, Super butane, Butane-Propane mix LPG

Containers	Gas contained			
	Butane		Super Butane	ButPro .mix
Campingaz 901 -904 -907	Х			
Campingaz GT 106 (90 g)			Х	
Campingaz C 206 (190 g)	Х	or	Х	
Coleman 190 (190 g)			Х	
Coleman CV 100 (97 g)				Х
Coleman CV 250 (220 g)				Х
Coleman CV 500 (440 g)				Х
Campingaz CV 270 (230 g)	Х	or	Х	
Campingaz CV 360 (52 g)			Х	
Campingaz CV 470 (450 g)	Х	or	Х	
Campingaz CG 1750 (170 g)				Х
Campingaz CG 3500 (350 g)				Х
Taymar-Campingaz T 1750 (170 g)				Х
Taymar-Campingaz T 3500 (350 g)				Х
Taymar-Campingaz RF 80 (185 g)	Х			
Taymar-Campingaz RF 89 (277 g)	Х			
Taymar-Campingaz RF 90 (350 g )	Х			
Campingaz CP 250 (250 g)	Х			
Flama 190 (190 g)	Х			

Supplier	APPLICATION DES GAZ, Route de Brignais, 69230 ST GENIS LA V AL - Tel. (33) ( 0)4 78 86 8700
2 - Composition/Information	Preparation
Description	Hydrocarbon mixtures mainly containing butanes, butenes, propane and propene, odorised by mercaptan
bar)	Butane: composition in compliance with French decree of $3/9/79$ (Pressure at 50°C < 6.9
N° CAS (substance) N° EINECS	Super butane: mixture of butanes, butenes and propane (approx. 20%) Butane-Propane mix : mixture of butanes, butenes and propane (approx. 30 %) 685 12 91 4 270 990 9
3 - Risk factors:	Butane and its mixtures are manufactured, stored, transported and distributed under pressure in liquefied form. In normal conditions, they remain in sealed systems up until their final destruction by combustion (use), and are therefore never handled directly. <i>The continual confinement of these gases is of utmost importance.</i> Nevertheless, certain special precautions are recommended to prevent or deal with their accidental release into the atmosphere, i.e. a leak.





Physical and chemical properties	<b>Extremely flammable</b> In the event of a leak, as gas is heavier than air, it has a 1endency , in the absence ventilation, to accumulate at the lowest possible levels. The intense heating of a container can cause it to rupture, allowing the product to escape; the ignition of vapour can give rise to deflagration or explosion.			
Health hazards	In gaseous state, breathing in highly concentrated vapours can cause drowsiness, intoxication, narcosis and, in extreme cases, coma through the rarefaction of oxyge In liquid state, it can cause cold burns.			
Environmental hazards:	Inapplicable in normal use conditions.			
4 - First aid	In the event of serious accidents, call a doctor or request emergency medical assistance.			
Inhalation:	The subject should be taken outdoor and kept in a resting position. If suffering from respiratory difficulties or loss of consciousness, call a doctor immediately and administer respiratory assistance.			
Skin	Rinse thoroughly with water.			
Eyes	Rinse thoroughly with water, keep the eye protected and consult a specialist.			
Flammation of clothing:	Hose down with water.			
5 - Fire-fighting measures				
Extinguishing means:	Recommended: powder, CO2, spraying with water in certain cases. III-advised : hosing with a concentrated stream of water Ineffective : foam			
Recommendations	Incomplete combustion creates toxic CO the inhalation of which is particularly hazardous. It is dangerous to put out a flame if the leak cannot be completely stopped.			
Protection of stocks:	As soon as a fire breaks out, evacuate all exposed flammable materials and LPG containers. Thoroughly cool by spraying with water all containers that cannot be evacuated. Do not hose down with a concentrated stream of water.			
Container fire:	If a container that is connected to an appliance catches fire, do not throw or turn it upside-down, as this can only exacerbate the problem (spilling of liquid gas or container rupture). Try to close the valve, protecting your hands and forearms with a wet cloth. If possible, take the container outside without lying it down. Keep people away. Never tip a container on fire.			
6 -Measures to be taken in case o	f accidental dispersion			
Storage	<ul> <li>In case of unignited liquid or gas leaks :</li> <li>Thoroughly air out the room</li> <li>Keep away from all sources of flammation; avoid all electrical switching.</li> <li>A void contact of the liquefied gas with the skin</li> <li>Block off allow-level openings in close proximity (vent holes, drain holes)</li> </ul>			

- -
- Keep people away Call on specialised emergency assistance \_





Container

If the leak cannot be stopped by moving the valve, take the container outdoor, avoiding any impact and dispose of it in a safe area without turning it upside-down.

### 7 -Handling and storage

Handling	Follow the instructions indicated on the containers. Use only in well ventilated areas ; do not smoke Use exclusively with suitable appliances (indication on containers). Always use the containers in the upright position. In workshops, avoid the build-up of electrostatic charges. Never look for a leak with a naked flame. Only soapy water should be used.
Storage	<ul> <li>Store in a well ventilated area, well away from all sources of heat and ignition.</li> <li>Do not expose containers to a temperature greater than 50°C</li> <li>Do not store below floor level (basement or cellar, for example)</li> <li>Store away from low-level points where vapours can accumulate</li> <li>Do not store in a vehicle (heating by the sun)</li> <li>Avoid contact with strong oxidising agents and keep away from combustible materials.</li> </ul>
8 - Control of exposure	<ul> <li>Generally inapplicable</li> <li>Odorisation allows a 0.5% gas content in the air to be detected</li> <li>If the smell of gas is detected, search for the leak with soapy water before using the Appliance</li> <li>Always use in a well ventilated area to allow for the evacuation of fumes and products of combustion (CO, CO2)</li> <li>Follow the instructions enclosed with the appliance and those indicated on the containers.</li> </ul>

#### 9 - Physical and chemical properties

Physical state Colour Odour : Auto-ignition temperature Flammability limits lower : Flash point		Liquid in the container Colourless Characteristic approximately 400°C approx. 1.8% Non applicable for Liquef	Upper: appro	tmospheric pressure x. 8.8%
		Butane	Super butane	Butane-Propane Mix
Boiling To under 1 atm. Relative vapour pressure (l	approx. bar)	-5°C	-20°C	-25°C
max. at 15°C	ápprox.	1.7	2.2	2.8
max. at 50°C	approx.	6.9	7.5	8.3
Density (liquid at 50°C)	kg/l min.	0.525	0.515	0.500
Density/air (15°C 1 atm)	approx.	2.01	2	1.95





10 -Stability-reactivity		<ul><li>No k</li><li>Explored</li><li>Com</li></ul>	bustion products	ition products fire when expose include nitroger	f use ed to heat or a source n, carbonic gas and v during bad combustic	vater vapour
<b>11 -Toxicology</b> Severe toxicity		greatest Breathing narcosis In the ev	e kept in closed of danger is the igr g in highly conce and, in extreme ent of incompleto	nition of vapours entrated vapours cases, coma. e combustion, th	in the air following ar could result in drows	iness, intoxication or carb9n monoxide can
12 - Ecological informa	tion	known ei Gas acci	nvironmental haz	zards. d into the atmosp	slightly soluble in wat ohere is rapidly dilute	·
<b>13 - Elimination of wast</b> Materials:	e:	cartridge - Emp peop - Obse CV 360 : Other ca	, even when emp tying a container ole and according	pty . from liquefied g g adapted instructions in force on w neet	as shall only be mad	never pierce or burn a e by specially trained of empty cartridges.
14- Product transport					ne transport regulatio pplicable safety regula	
Road	R901, 904, 9 cartridges	907	Class numeration 2°F 5°F abel: No.2.1	2 UNO No. 1965 2037		
Sea	R901, 904, 9 cartridges	IMDG 907	Class 2.1 2 .1	UNO No. 1965 2037		
Air	R901, 904, s cartridges	ІАТА 907	Class 2.1 2.1	UNO No. 1965 2037	Passenger plane Prior agreement Prior agreement	Cargo plane yes yes





**15 -Regulatory information:** Dangerous preparation labelling

Dangerous preparation labelling	Applicable to 1.4.97 Symbol F+ : highly flammable Phrase R12 : highly flammable Phrases S2 « Keep out of reach of children », S9 « store in a ventilated place », S16 « Store away from all flames or sources of ignition. Do not smoke » , S33 « A void the build-up of electrostatic charges ».					
Domestic premises: Caravans:	refer to national regulations refer to national regulations					
16 -Additional information:						

Only to be used for the applications and with the appliances indicated on the containers. Containers in compliance with existing regulations. Never refill an empty container.

Safety data sheet established in application of EEC directive 91/155 -All information contained in this sheet is based on our knowledge.