## PRODUCT SAFETY DATA SHEET



Annule et remplace : Page : Edition : 4 Date : 14/04/16

PROPANE

Saint Genis Laval Edition : 5 Date : 19/05/17

## Specific risk: EXTREMELY FLAMMABLE

## 1. Product identification

Name Intended use Nature Presentation/Packaging Commercial Propane Fuel LPG - liquefied petroleum gases Containers conform to existing regulation.

Container turne	Gas contained		
Container type	Propane		
Non rechargeable cylinder			
Cylinder 453g propane Coleman	Х		

Supplier : Address : Phone Fax: E-mail APPLICATION DES GAZ, 219 Route de Brignais, 69563 ST GENIS LAVAL FRANCE + 33 (0) 4 78 86 88 94 + 33 (0) 4 78 86 88 84 info@coleman.eu

## 2. Risk factors:

Propane is 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.

The continual confinement of these gases is of utmost importance. 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 tendency, in the absence of 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	<b>in gaseous state</b> , breathing in highly concentrated vapours can cause drowsiness intoxication, narcosis and in extreme cases, coma through the rarefaction of oxygen.

In liquid state, it can cause cold burns. in particular in the event of projection

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### Labelling SGH regulation (EC) 1272/2008 (CLP) :



Signal Word Danger Hazard Statement: H220-Extremely flammable gas H280-Contains gas under pressure; may explode if heated Precautionary Statement: 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- Eliminate all ignition sources if safe to do so. P403- Store in a well-ventilated place.

### 3. Composition/Information on components

Usual chemical name/generic name: Commercial propane:

Mix of hydrocarbons made up in the proportion of 90% approximately of propane, propene and for the rest of ethane, ethylene, propane and butanes. The product must be treated to emit a characteristic smell. Depending on the season, it can contain methanol in a usual proportion in the order of 1 to 1000.

CAS number: 74-98-6 EC number: 200-827-6

The product is exempted from pre registration and registration (Annex V (2)(7)(b).of Regulation 1907/2006

Constituents contributing to the risks: Propane is very flammable and form explosive mixe with air.

## 4. First aid

In the event of serious accidents, call a doctor or request emergency medical assistance.

Inhalation:	Symptoms are mainly: headache, dizziness, narcotic effect and loss of consciousness in case of asphyxiation:
	The subject should be taken outdoors 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 cold water. Remove contaminated clothing and eventually: rings, watch, bracelet; leave in place if these objects and clothing stick to the skin. Try to heat slowly the parts reached. For the significant cases call a doctor immediately

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Eyes	Immediately flush eyes thoroughly with water for protected and consult a specialist.	at least 10 min keep the eye	
Inflammation of clothing:	Hose down with water.		
Protecting rescuers	To enter an area where propane is leaking: depending on the exposure risks, wear appropri or helmet with face mask and neck protection trousers outside). They should be made of infusil This type of intervention must be made EXCLUS for this purpose. Equip all operators with a lifeline	, gloves, overalls and boots (with ble, fire-resistant materials. IVELY by staff trained especially	
5. Fire-fighting measures			
Flash point	Lower to -50°C		
Extinguishing means:	Recommended: powder, CO2, spraying with wat Advised: hosing with a concentrated stream of w Ineffective: foam		
Specifics dangers	incomplete combustion creates toxic CO the hazardous.	inhalation of which is particularly	
Extinction.	It is dangerous to put out a flame if the leak cann	not be completely stopped.	
Protection of stocks:	As soon as a firebreaks out, evacuate all exposion containers. Thoroughly cool by spraying with water all contain not hose down with a concentrated stream of wa	iners that cannot be evacuated. Do	
Container fire:	If a container that is connected to an appliance upside-down, as this can only exacerbate the container rupture). Never tip a container on fire. Keep people away.		
	Try to close the valve, protecting your hands possible, take the container outside without lying		
Protecting of rescuers	Protect personnel with fire protective clothing, copious quantities of water spray or fireproof wall. Do not enter enclosed or confined space without proper protective equipment including self-contained breathing apparatus		
6. Measures to be taken i	n case of accidental dispersion		
Gas or liquid leak	Avoid contact of the liquefied gas with the skin Do not stay in the vapour cloud (propane air mixt source.	tures). But Place you behind the	
In case of leaks in a closed room	Thoroughly air out the room Keep away from all sources of ignition; avoid all Block off allow-level openings in close proximity Keep people away		
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	Call on specialised emergency assistance		
Container	If the leak cannot be stopped by closing the valve, take the container outdoor, avoiding any impact and dispose it in a safe area without turning it upside-down.		
7. Handling and storage			
Handling	<ul> <li>Follow the instructions enclosed with the appliance and those indicated on the containers.</li> <li>Always use in a well-ventilated area to allow for the evacuation of fumes and products of combustion (CO, CO2)</li> <li>Do not smoke.</li> <li>Use exclusively with suitable appliances (indication on containers).</li> <li>Always use the containers in the upright position.</li> <li>Close container after each use.</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>Never look for a leak with a naked flame.</li> <li>Never refill an empty container.</li> <li>Do not heat containers.</li> </ul>		
Storage	According to quantities product nature store, ob large quantities, the storage can depend of the sp Store in well ventilated are, away from all sources Do not expose containers to a temperature excee Do not store below floor level (basement or cellar Store away from low-level points where vapours of Do not store in a vehicle (heating by the sun). Avoid contact with strong oxidising agents and ke materials. Use exclusively containers or cartridges intended regulation.	pecific regulations. s of heat and ignition. eding 50°C/120°F. , for example). can accumulate sep away from combustible	
	Use only electrical equipment adapted (explosion	proof) in the danger zones.	

# 8. Control of exposure personal protection

All works on installations of propane shall only be made by specially trained people and according adapted instructions.

# Personal Protective Equipment

Head protection:	Use a helmet like for the operations of loading/unloading or storage.
Eyes protection:	Goggles or safety glasses, to protect eyes from exposure to liquid.
Hands protection:	Protective gloves against cold
Skin protection:	Clothing fireproofed and avoiding electrostatic charges

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## PROPANE

9.	Physical and chemical	properties

Physical state	Liquid in the container, Gaseous at atmospheric pressure		
Colour	In gaseous state: Colourless In liquid state: Colourless		
Odour:	Characteristic		
Auto-ignition temperature	higher than 400°C		
Flammability limits lower:	Approx: 2.15%	Upper: approx. 9.6%	
Flash point	Lower than –50°C		

	Propane
Boiling To under 1 atm. approx.	-42°C
Relative vapour pressure (bar)max. at 15°C approx	7.5
Relative vapour pressure (bar)max. at 50°C approx	11.5 <p<19.3< td=""></p<19.3<>
Density (liquid at 50°C) kg/l min.	0.443
Density/air (T° = 15°C, P =1 atm) approx.	1.87

Solubility Slightly soluble in water

Butane evaporation 1L of liquide propane got up to atmospheric pressure generates a volume of vapor about 270 L.

# 10. Stability-reactivity

Stability	Product stable in normal conditions of use
Decomposition product	No known decomposition products
Dangerous reaction	Explodes or catches fire when exposed to heat or a source of ignition. Combustion products include nitrogen, carbonic gas and water vapour. Carbon monoxide (toxic) is released during bad combustion.

# 11. Toxicology

Severe toxicity	Inapplicable. LPGs are kept in closed containers until their destruction by combustion. The greatest danger is the ignition of vapours in the air following an accidental leak. Breathing in highly concentrated vapours could result in drowsiness, intoxication or narcosis and, in extreme cases, coma. In the event of incomplete combustion, the ensuing release of carbon monoxide can cause dizziness, beadaches, loss of muscular mobility and coma
	cause dizziness, headaches, loss of muscular mobility and coma.

# 12. Ecological information

As they evaporate instantly and are only slightly soluble in water, LPGs present no known environmental hazards. Gas accidentally released into the atmosphere is rapidly diluted and undergoes photochemical decomposition.



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#### 13. Elimination of waste:

As containers of LPGs always contain flammable vapours, never pierce or burn a container, even when empty. Emptying a container from liquefied gas shall only be made by specially trained people and according adapted instructions.

Observe the regulations in force on waste for the disposal of empty cartridges.

Packaging materials non refillable cylinders : steel

## 14. Product transport

For transport of private use, respect the instructions written on the container, like do not store containers in a vehicle heat by the sun.

All containers meet the requirements of the transport regulations. For transporting large quantities, follow the applicable safety regulations (road, sea, air).

#### ROAD: United Nations regulations (UN) - ADR - 2015

Product	N° ONU	Designation	Class	Danger code	Hazard Class
Propane Containers	1978	Propane,	Class 2, 2°F	23	2.1

RAIL: Convention concerning International Carriage by Rail (COTIF) - RID

Product	N° ONU	Designation	Class	Danger code	Hazard Class
Propane Containers	1978	Propane,	Class 2 , 2°F	23	2.1

#### SEA: International Maritime Dangerous Goods (OMI) IMDG

Product	N° ONU	Designation	Class	Danger label	Safety sheet N°	N° table GSMU
Propane Containers	1978	Propane,	Class 2.1	2.1	3	310

Air: International Air Transport Association -ΙΑΤΑ

Product	N° ONU	Designation	Class	Danger label	Passenger plane	Cargo plane
Propane Containers	1978	Propane,	Class 2.1	2.1	Limited	Limited

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### 15. Regulatory information:

Labelling

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Signal Word Danger Hazard Statement: H220-Extremely flammable gas H280-Contains gas under pressure; may explode if heated

#### **Precautionary Statement:**

P102- Keep out of reach of children.
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P377- Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381- Eliminate all ignition sources if safe to do so.
P403- Store in a well-ventilated place.

## **16. Additional information:**

Use only for the applications and with the appliances indicated on the containers Before using this product for an experience or a new application, read carefully the instructions indicated on the container or the appliance, to know the compatibility and the safety rules.

The regulation data and advice given are there to help the consumer to follow his regulatory obligations and describe any precautions, which should be taken. But this prescription cannot be considered like exhaustive. The user has to ensure that national, international or local regulations are observed.

Safety data sheet established in application of Authorisation and Restriction of Chemicals (REACH) European Regulation EC N° 1907/2006. All information contained in this sheet is based on our knowledge. This data sheet supplements the instructions include with the product, but don't replace them.

Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting its use can be accepted.

19/05/17-V5 Suppression Directive 67/548/CEE