













Product Name: Liquefied Petroleum Gas MSDS No.: MSDS004 Date: October 2017

MY GAS MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification			
Product Name:	Liquefied Petroleum Gas	Trade Name:	LPG
Product Use:	Many	UN Number:	1075
Chemical Name:	Butane/Propane/Propylene	Synonym:	
Chemical Formula:		Chemical Family:	Aliphatic Hydrocarbon
Telephone: Emergencies:	010-072 0995	Supplier /Manufacture:	My Gas
	* 0861 HELIUM	Fax:	086 508 3271
		Phone:	010-072 0995

^{*}Call emergency numbers 24 hours a day only for spills, leaks, fire, exposure, or accidents involving this product.

For routine information, contact your My Gas sales representative.

2. Hazards Identification

EMERGENCY OVERVIEW

Vaporised liquefied petroleum gas is highly flammable and can form explosive mixtures with air. The vapourised liquid does not support life. It can act as a simple asphyxiant by diluting the concentration of oxygen in the air below the levels necessary to support life. It can act as a simple asphyxiant.

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ROUTES OF EXPOSURE:	Inhalation.	
EFFECTS OF EXPOSURE:		
VAPOUR INHALATION:	As the vapourised liquid act as a simple asphyxiant death may result from errors	
	in judgement, confusion, or loss of consciousness which prevents self- rescue. At	
	low oxygen concentrations, unconsciousness and death may occur in seconds	
	without warning.	
SKIN CONTACT:	Contact with the liquid phase can cause severe burn-like injuries.	
SWALLOWING:	No known effect.	
EYE CONTACT:	The liquid can cause severe burn-like injuries.	
ADVERSE HEALTH EFFECT:	The liquefied petroleum gases are non-toxic. Prolonged inhalation of high	
	concentrations has an anaesthetic effect.	
CHEMICAL HAZARDS:	Propane and butane (known as extensively in commercial and popular terms as	
	Lpgas or LPG) have an extremely wide range of domestic, industrial, commercial,	
agricultural and internal combustion engine uses. It is estimated that two gases		
	un-mixed and in mixtures, have several thousand industrial applications and	
	many more in other fields. Their very broad application stems from their	
	occurrences as hydrocarbons between natural gas and natural gasoline, and	
	from their corresponding properties. As a result of their wide application,	
	misuse could result in serious chemical hazards.	
BIOLOGICAL HAZARDS:	Contact with the liquid phase of liquefied petroleum gases with the skin can	
	result in frostbite.	

3. Composition and Information on Ingredients		
COMPONENTS: Butane/Propane/Propylene		
UN NUMBER: 1075		
CONCENTRATION % by Mole: 100		

4. First Aid Measures

Prompt medical attention is mandatory in all cases of overexposure to vapourised liquefied petroleum gas. Rescue personnel should be equipped with self-contained breathing apparatus. In the case of frostbite from contact with the liquid phase, place the frost bitten part in warm water, about 40-42 °C. If warm water is not available. Or is impractical to use, wrap the affected part gently in blankets. Encourage the patient to exercise the affected part whilst it is being warmend. Do not remove clothing whilst frosted. Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most

















ı	important. Unconscious persons should be removed to an uncontaminated area, and given mouth-to- mouth
ı	resuscitation and supplemental oxygen.

resuscitation and	supplemental oxygen.
SKIN CONTACT:	See above for handling of frostbite.
SWALLOWING:	No known effect.
EYE CONTACT:	Immediately flush with large quantities of tepid water, or with sterile saline solution. Seek
	medical attention.

5. Fire Fighting Measures

FLAMMABLE: Extremely Flammable

EXTINGUISHING MEDIA: Do not extinguish fire unless the leakage can be stopped. DO NOT USE WATER JET. Use dry chemical, CO2 or foam.

PROTECTION OF FIREFIGHTERS: Self-contained breathing apparatus. Safety gloves and shoes, or boots, should be worn when handling containers.

SPECIFIC PHYSICAL AND CHEMICAL HAZARDS: The rupturing of cylinders or bulk containers due to excessive exposure to fire could result in a BLEVE (Boiling Liquid expanding Vapour Explosion), with disastrous effects. As the flammability limits in the air for the main constituents of liquefied petroleum gas vary between approximately 2 and 11% by vol, extreme care must be taken when handling leaks.

EMERGENCY ACTIONS: If possible shut off the source of spillage. Evacuate area. Post notices "No Naked lights – No Smoking". Prevent liquid or vapour from entering sewers, basements and workpits. Keep cylinders or bulk vessels cool by spraying with water if exposed to fire. If tanker has overturned, do not attempt to right or move it. CONTACT THE NEAREST MY GAS BRANCH.

ENVIRONMENTAL PRECAUTIONS: Vapourised liquefied petroleum gas is heavier than air and could form pockets of oxygen-deficient atmosphere in low lying areas.

6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

PERSONAL PRECAUTIONS: Do not enter any area where liquefied petroleum gas has been spilled unless tests have shown that it is safe to do so.

ENVIRONMENTAL PRECAUTIONS: The danger of widespread formation of explosive LPG/Air mixtures should be taken into account. Accidental ignition could result in massive explosion.

SMALL SPILLS: DO NOT extinguish the fire unless the leakage can be stopped immediately. Once the fire has been extinguished and all spills have been stopped, ventilate the area.

LARGE SPILLS: Stop the source if it can be done without risk. Contain the leaking liquid, with sand or earth, or disperse with special water/fog spray nozzle. Allow to evaporate. Restrict access to the area until completion of the clean-up procedure. Ventilate the area using forced-draught if necessary. All electrical equipment must be flameproof.

7. Handling and Storage

Cylinders containing liquefied petroleum gas should only be handled and stored in the vertical position. Cylinders should never been rolled. Do not allow cylinders to slide or come into contact with sharp edges and they should be handled carefully. Ensure that cylinders are stored away from oxidants. Comply with local legislation.

8. Exposure Controls/Personal Protection

6. Exposure controls/1 cisonari rotection				
INGREDIENTS	UN NUMBER	LD50(Species & Routes)	LC50 (Rat, 4 hrs.)	Exposure Limits
Butane/Propane/Propylene	1075	Not applicable	Not available	Simple asphyxiate

OCCUPATIONAL EXPOSURE HAZARDS: As vaporised LPG is a simple asphyxiant, avoid any areas where spillage has taken place.

ENGINEERING CONTROL MEASURES:

Engineering control measures are preferred to reduce exposure to Oxygen- depleted atmospheres. General methods include forced-draught ventilation, separate from other exhaust ventilation, separate from other exhaust ventilation systems. Ensure that all electrical equipment is flameproof.

PERSONAL PROTECTION:

















Self-contained breathing apparatus should always be worn when entering area where oxygen depletion may have occurred. Safety goggles, gloves and shoes, or boots, should be worn when handling containers. Skin. Wear loose-fitting overalls, preferably without pockets.

9. Physical and Chemical Properties			
PHYSICAL STATE: Gas AUTO IGNITION TEMP: 450°C SPECIFICATION: SANS 1174			SPECIFICATION: SANS 1174
COLOR: Clear	TASTE: None Odour: EthylMercaptan		
SPECIFIC VOLUME : @ 20°C & 101,325 kPa 471ml/g FLAMMABILITY IN AIR : 2,2-9.5%			
RELATIVE DENSITY: (Air=1) @101,325kPa +-1,75			

10. Stability and Reactivit	у
CONDITIONS TO AVOID:	The dilution of the oxygen concentration in the atmosphere to levels which
	cannot support life. The formation of explosive gas/air mixtures.
INCOMPATIBLE MATERIALS:	Any common, commercially available metal may be used with commercial (or
	higher) grades of liquefied petroleum gases because they are non- corrosive,
	though installations must be designed to withstand the pressure involved and
	must comply with all state local regulations.
HAZARDOUS	The constituents of liquefied petroleum gas are relatively stable. However, on
DECOMPOSITION	combustion, toxic compositions, typically carbon monoxide, may be formed,
PRODUCTS:	depending on conditions.

11. Toxicological Information	
ACUTE DOSE EFFECTS: TLV 1000 VPM	
CARCINOGENICITY: Severe cold burns can result in carcinoma.	

12. Ecological Information

Vapourised liquefied petroleum gas is heavier than air, and can cause pockets of oxygen-depleted atmosphere in low-lying areas. It does not pose a hazard to the ecology, unless the gas/air is ignited.

13. Disposal Consideratio	ns	
DISPOSAL METHOD:	Disposal of Propane, as with other flammable gases, should be undertaken	
	only by personnel familiar with the gas and the procedures for disposal.	
	Contact the supplier for instructions. In general, should it become necessary to	
	dispose of Propane, the best procedure, as for other flammable gases, is to	
	burn them in suitable burning unit available in the plant. This should be done	
	in accordance with appropriate regulations.	

14. Transport Information		
ROAD TRANSPORTATION:		SEA TRANSPORTATION:
UN NO: 1075		IMDG: 1075
ERG NO: 115		LABEL: Flammable Gas
HAZCHEM WARNING: 2A-Flammable Gas		
AIR TRANSPORTATION:		
ICAO/IATA CODE:	1075	
CLASS:	2.1	
PACKAGING GROUP:		
PACKAGING INSTRUCTIONS:	Cargo 200 Passenger Forbidden	
MAXIMUM QUANTITY ALLOWED:	Cargo 150kg Passenger Forbidden	

15. Regulatory Information	
SUPPLEMENT TO SANS 10234:2008	
Edition 1	















Hazard & Precautionary statement codes H220 Extremely Flammable Gas P210 Keep away from heat/sparks/open flames/ hot surfaces – NO SMOKING (Manufacture, supplier or the competent authority to specify ignition sources) 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. Other Information

MIXTURES:

When two or more gases, or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist, or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

My Gas asks users of this product to study this MSDS and become aware of product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this MSDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.