

FLT Gas Safety Information

Always read and observe appliance manufacturer and our instructions

Hazards indentification:

Extremely flammable liquefied gas that readily forms explosive air vapour mixtures

Potential health effects:

- Eye contact with product or gas under pressure can cause cold burns
- Inhalation may cause irritation to nose and/or throat, headache, nausea, vomiting, dizziness, drowsiness and/or euphoria (In poorly ventilated or confined spaces, unconsciousness and asphyxiation may result)
- Skin contact with product can cause frostbite (cold burns).

First aid:

- Eyes immediately wash eyes with plenty of cold water for at least 15 minutes. Seek medical attention
- Skin & cold burns immerse skin in tepid water until circulation returns
- Inhalation immediately remove patient from contaminated area. Keep warm. If breathing has stopped, give artificial respiration. Seek medical help.

Firefighting:

DO NOT use water or foam to extinguish fires - vacate the area and call the Fire Brigade.

Small fires can be attacked with dry powder fire extinguishers. If it is safe to do so, close container valve and allow fire to burn out. Beware of vapour accumulating to form explosive concentrations. Explosive vapours may travel and be ignited at remote locations and flash back.

Accidental release measures:

Evacuate the area, except for personnel dealing with the emergency. Extinguish or isolate power from sources of ignition. Ventilate area. Isolate gas supply to the point of leakage, if safe to do so. Cover drains and sewers etc. Inform authorities if major spillage occurs.



Handling and storage:

Handling – Cylinders containing propane are designed to give liquid or vapour off-take. Vapour
off-take must be used in the vertical position. Liquid off-take must be used in the position
indicated on the cylinder.

A face shield and impervious rubber gloves should be worn when transferring this product as a liquid.

The risk of inhaling high concentrations of vapour should be avoided by provision of suitable ventilation.

Storage – The product must be stored in purpose designed mild steel cylinder(s) or tank(s) or other systems of suitable pressure rating. These should be segregated from oxidant gases and other oxidants in store.

Pipework and handling equipment should be designed for the purpose and be electrically bonded and grounded (earthed) to prevent accumulation of static charge.

Reference should be made to the relevant Codes of Practice for Safe Storage and Handling of LPG produced by HSE and LPGA (See Section 13).

Exposure control/personal protection:

The following occupational exposure standards have been approved by the Health & Safety Commission on EH40 and are relevant to this product:

	Long-term Exposure Limit (ppm) (8hr TWA)	Short-term Exposure Limit (ppm) (15 min period)
Liquefied Petroleum Gas *	1000	1250

* Pure propane may be regarded as a simple asphyxiant

- Ventilation use the product in a well-ventilated place. Use local ventilation to control exposure of the product to below the recommended limits
- **Respiratory Protection** should be used if there is a risk of high vapour concentration
- Hand Protection use rubber gloves if in contact with liquid
- Eye Protection use chemical goggles or face shield when handling the product in liquid form
- Skin Protection wear safety boots or shoes when handling cylinders. Wear protective overalls with long sleeves to cover exposed skin.



Physical and chemical properties:

Appearance	(
Odour	(
Boiling Point	-
Flash Point	-
Flammability Limits	2
Autoflammability	4
Vapour Pressure	7
Specific Gravity of Liquid	(
Specific Gravity of Vapour	
Solubility in Water	I

Colourless liquefied gas Odourless odorant added to provide a distinctive smell -42°C -104°C (PMCC) 2% to 11% in air 460-580°C 7.5 bar at 15°C 0.512 at 15°C 1.5 at 15°C (Air = 1.0) Insoluble

Stability and reactivity:

- Stability can form explosive mixture with air
- **Incompatibility** propane reacts violently with strong oxidizing agents, peroxide, plastics, chlorine dioxide and concentrated nitric acid
- Hazardous Decomposition
- Products normally carbon dioxide (carbon monoxide if deficiency in oxygen supply).

Disposal considerations:

Do not discharge product into areas where there is a risk of forming an explosive mixture with air. Cylinders are the property of Premier Autogas Limited and are returned to us. Emptying of tanks is the responsibility of Premier Autogas Limited.

Transport information:

Classifications for transportation are:

UN Number	1978
Class	2(3) hydrocarbon gasses, liquefied
Classification for Carriage	Flammable gas
Hazchem Code	2YE
ADR/RID	Class 2 liquefied gas (2, 3b)
LATA/ICAO	Class 2



Regulatory information:

Product Label	F+ Extremely flammable
Risk Phrases	R13 Extremely flammable liquefied gas S16 Keep away from sources of ignition – No Smoking S33 Take precautionary measures against static S9 Keep container in a well-ventilated place
References	The Chemicals (Hazard Information & Packaging for Supply) Regulations 1994 SI No 3247 + Amendment 1996/(1092)
	The Control of Substances Hazardous to Health Regulations 1994 SI No 3246 + Amendment 1996/3138, 1997/11
	The Health & Safety at Work Act 1974

Further information:

The user of this product is advised of the following relevant information:

- Fire Certificates (Special Premises) Regulations 1976 SI No 2003
- Notification of Installation Handling Hazardous Substances Regulations 1982 SI No 1357
- The Storage of LPG at Fixed Installations (UKLPG Code of Practice No.1 Part 1)
- The Keeping of LPG in Cylinders and Similar Containers (UKLPG Code of Practice No.7)

The above publications can be obtained from:

- HSE Books, PO Box 1999, Sudbury, Suffolk CO10 6PS Tel: 01787 881165
- UKLPG, Camden House, Warwick Rd, Kenilworth, Warwickshire CV8 1TH Tel: 01425 461612

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