

# HEALTH, SAFETY, AND ENVIRONMENTAL PROCEDURES



## COSHH ASSESSMENT

<b>ACTIVITY/PRODUCT TO BE ASSESSED:</b>	Liquefied Propane Gas				<b>REFERENCE:</b>	COSHH 002
					<b>DATE:</b>	21/01/2021
<b>ORGANISATION:</b>	Humphrey and Stretton Limited					
<b>DESCRIBE THE ACTIVITY OR WORK PROCESS:</b>	Liquefied propane used for forklift truck.					
<b>LOCATON OF PROCESS BEING CARRIED OUT:</b>	Fork lift is being used in yard area.					
<b>IDENTIFY PERSONS AT RISK:</b>	The Operative <input checked="" type="checkbox"/>	Other Employees <input type="checkbox"/>	Other Contractors <input type="checkbox"/>	Any Visitors <input type="checkbox"/>	General Public <input type="checkbox"/>	

EUROPEAN CLASSIFICATION (CLP REGS)  
(Mandatory from 01/06/15)

Toxic <input type="checkbox"/>	Corrosive <input type="checkbox"/>
Flammable <input checked="" type="checkbox"/>	Oxidising <input type="checkbox"/>
Gas Under Pressure <input checked="" type="checkbox"/>	Danger to Environment <input type="checkbox"/>
Explosive <input checked="" type="checkbox"/>	Caution / Irritant <input type="checkbox"/>

Serious - Long-Term Health Hazard <input checked="" type="checkbox"/>
---

<b>TYPE OF HAZARD:</b>	Gas <input type="checkbox"/>	Vapour <input checked="" type="checkbox"/>	Mist <input type="checkbox"/>	Fume <input type="checkbox"/>
	Dust <input type="checkbox"/>	Liquid <input type="checkbox"/>	Solid <input type="checkbox"/>	Other <input type="checkbox"/>









<b>STATE THE RISKS TO HEALTH FROM IDENTIFIED HAZARDS:</b>	<p>Cold burns (frostbite) will result from skin/eye contact with the gas.</p> <p>Liquid release or vapour pressure jets present a risk of serious damage to the eyes.</p>
---	---

	<p>Inhalation of very high concentrations of vapour, even for short periods, can produce unconsciousness or might prove fatal.</p> <p>Inhalation may cause irritation to the nose and throat, headache, nausea, vomiting, dizziness, and drowsiness. In poorly ventilated or confined spaces, unconsciousness or asphyxiation may result.</p>
--	---

**WORKPLACE EXPOSURE LIMITS (WELS)**

INGREDIENT:	SHORT TERM EXPOSURE LIMIT (15 MINS):	LONG TERM EXPOSURE LEVEL (8 HOUR TWA):
Liquefied petroleum gas	2180mgm <sup>3</sup> (1250ppm)	1750 mgm <sup>3</sup> (1000ppm)

**PERSONAL PROTECTIVE EQUIPMENT (TYPE AND STANDARD):**

	<b>Dust Mask</b> <input type="checkbox"/>			<b>Visor</b> <input checked="" type="checkbox"/>	As an alternative to safety goggles a visor can be worn
	<b>Respirator</b> <input checked="" type="checkbox"/>	Suitable approved respiratory equipment should be worn if risk dictates.		<b>Glasses</b> <input checked="" type="checkbox"/>	Wear Safety goggles to BSEN166
	<b>Gloves</b> <input checked="" type="checkbox"/>	Wear neoprene or LPG resistant gauntlets		<b>Overalls</b> <input checked="" type="checkbox"/>	Wear suitable overalls to prevent cold
	<b>Safety Footwear</b> <input checked="" type="checkbox"/>	When handling cylinders wear protective footwear to BSEN 345		<b>Other</b> <input type="checkbox"/>	

**FIRST AID**

ROUTE OF EXPOSURE:	SYMPTOM:	FIRST AID TO BE APPLIED:
<b>EYES</b>	<b>IRRITANT</b>	Cold burns should be flushed with water to normalise temperature. Cover the eye with a sterile dressing and obtain medical assistance immediately.
<b>INGESTION</b>	<b>HARMFUL</b>	N/A
<b>INHALATION</b>	<b>HARMFUL</b>	Remove the affected person to fresh air. If breathing has stopped administer artificial respiration. Give external cardiac massage if necessary. If the person is breathing, but unconscious, place them in the recovery position. Obtain medical assistance immediately.

<b>SKIN</b>	<b>IRRITANT</b>	Burns should be flushed with water to normalise temperature. Cover the burns with sterile dressings. Do not apply ointments or powders. Obtain medical assistance immediately.
<b>PRECAUTIONS TO BE TAKEN WHEN DEALING WITH THE FOLLOWING:</b>		
<b>FIRE</b>	<p>These materials are delivered, stored, and used at temperatures above their flash point. Avoid all naked flames, sparks, cigarettes, etc.</p> <ul style="list-style-type: none"> <li>• IN CASE OF FIRE, IMMEDIATELY ALERT THE FIRE BRIGADE.</li> <li>• Ensure an escape path is always available from any fire.</li> <li>• If gas has ignited, do not attempt to extinguish but stop gas flow and allow to burn out.</li> <li>• Use water spray to cool heat-exposed containers, and to protect surrounding areas and personnel effecting shut-off.</li> </ul> <p>Every precaution must be taken to keep containers cool to avoid the possibility of a boiling liquid expanding vapour explosion (BLEVE). Pressurised containers are liable to explode violently when subjected to high temperatures.</p> <p><b>Extinguishing Media</b></p> <p><b>Large Fire:</b></p> <p>Container cooled by water spray. Water fog should be used to assist approach to the source of the fire. Large fires should only be fought by the Fire Brigade.</p> <ul style="list-style-type: none"> <li>• DO NOT USE WATER JET</li> </ul> <p><b>Small Fire:</b></p> <ul style="list-style-type: none"> <li>• Use Dry Powder Extinguisher</li> <li>• DO NOT USE WATER OR FOAM.</li> </ul> <p>Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.</p> <p><b>FIRE PREVENTION</b></p> <ul style="list-style-type: none"> <li>• Explosive air/vapour mixtures may form at ambient temperature.</li> </ul> <p>Note: Product spilt on clothing may give rise to delayed evaporation and subsequent fire hazard.</p> <p><b>IMMEDIATE EMERGENCY ACTION:</b></p> <ul style="list-style-type: none"> <li>• Clear people away from the area to a safe place;</li> <li>• Do not operate electrical equipment unless flameproof;</li> <li>• Summon aid of emergency services.</li> <li>• Treat or refer casualties if necessary.</li> </ul> <p><b>FURTHER ACTION – FIRE</b></p> <p>IF SAFE TO DO SO:</p> <ul style="list-style-type: none"> <li>• Stop product flow</li> <li>• Use dry powder or carbon dioxide extinguishers</li> <li>• Cool containers exposed to fire by water fog/spray</li> </ul>	
<b>DISPOSAL</b>	<p>Flogas cylinders are the property of Flogas Britain Limited and should be returned to the local dealer/stockist/authorised agent.</p> <p>Users are recommended to contact their local Flogas representative when they wish to dispose of surplus quantities of Flogas Liquefied Propane Gas.</p>	

	<p>Do not discharge product into areas where there is a risk of forming an explosive mixture with air.</p> <p>Hazard warning labels are a guide to the safe handling of empty packaging and should not be removed. Empty containers represent a fire hazard as they may contain flammable product residues. Never incinerate, crush, weld, solder or braze empty containers.</p>				
<b>SPILLAGE</b>	<p>IF SAFE TO DO SO:</p> <ul style="list-style-type: none"> <li>• Extinguish naked lights, e.g. cigarettes – AVOID MAKING SPARKS.</li> <li>• Position fire-fighting equipment.</li> <li>• Try to stop the flow of liquid product.</li> <li>• Cover drains and disperse vapour with water spray.</li> </ul> <p>Note: vapour may collect in confined spaces</p>				
<b>STORAGE</b>	<ul style="list-style-type: none"> <li>• Store and use only in equipment/containers designed for use with this product.</li> <li>• Store and dispense only in well ventilated areas away from heat and sources of ignition.</li> <li>• Containers must be properly labelled.</li> <li>• Do not remove warning labels from containers.</li> </ul>				
<b>ADDITIONAL CONTROLS TO BE APPLIED (E.G. EXTRACTION, TRAINING, SUPERVISION ETC.):</b>					
<b>IS EXPOSURE ADEQUATELY CONTROLLED?</b>		<b>YES</b>	<input checked="" type="checkbox"/>	<b>NO</b>	<input type="checkbox"/>
<b>RISK RATING FOLLOWING CONTROL MEASURES:</b>		<b>High</b>	<input type="checkbox"/>	<b>Medium</b>	<input checked="" type="checkbox"/>
				<b>Low</b>	<input type="checkbox"/>
<b>THIS ASSESSMENT CARRIED OUT REVIEWED BY:</b>					
<b>NAME:</b>	Calogero Gattuso	<b>SIGNATURE:</b>	<i>Calogero Gattuso</i>	<b>DATE:</b>	21/01/2021
<b>CONTROLS CHECKED BY:</b>	Dave Humphrey	<b>SIGNATURE:</b>		<b>DATE:</b>	