



COSHH Risk Assessment No: 08

Name of substance, manufacturer and safety data sheet reference.		Propane	
Describe the activity or process <i>(Include how long and how often this is carried out and the quantity of substance used. A copy of a current safety data sheet (SDS) for the substance should be attached to this assessment and cross-referenced when completing it).</i>		Use as a fuel for equipment specifically designed to run on commercial propane (ie/ burners on hotboxes)	
Specify where the activity or process is being carried out		Carried in specifically designed storage compartments on HGV hotboxes	
Identify the persons at risk:		Employees (including trainees) ☒	Contractors ☒ Public ☐
Hazard(s)			
Physical Nature of Hazard - SDS Section 9.1			
☐ Liquid	☐ Dust	☐ Solid	☐ Fume
☐ Mist	☒ Vapour	☐ Gas	☐ Other (state) _____
Classification of Hazard - SDS Section 2.2			
Moderate hazard	Acutely toxic	Corrosive	Health hazard
☐	☐	☐	☐
Flammable	Oxidising	Explosive	Gas under pressure
☒	☐	☐	☒
	Harmful to the aquatic environment		
☐	☐		
Risk(s)			
Signal Word - SDS Section 2.2		Add Hazard Statement(s) - SDS Section 2.2	
Warning ☐ Danger ☒		H220: extremely flammable gas H280: contains gas under pressure; may explode if heated	
Route of Exposure - SDS Section 4.1			
☒ Inhalation	☒ Ingestion	☒ Skin Contact	☒ Contact with Eyes
Other (state) _____			
Risks to Health – Most Important Symptoms and Effects - Refer to safety data sheet (attached) SDS Section 4.2			
Frostbite (cold burn). The vapour may have a narcotic effect. Overexposure may cause adverse effect such as drowsiness, dizziness, disorientation, vertigo. Severity of the symptoms will vary dependant on the concentration and the length of exposure.			
Workplace Exposure Limits (WELs) please indicate n/a where not applicable - SDS Section 8.1			
Long-term exposure level (8hrTWA): 1000 ppm (1750 mg/m ³)		Short-term exposure level (15 minutes): 1250 ppm (2180 mg/m ³)	
Control Measures: (for example extraction, ventilation, training, supervision) - SDS Section 8.2			
Provide natural or explosion-proof ventilation that is adequate to ensure flammable gas does not reach its lower explosive limit.			

First Aid: Recommended Actions - SDS Section 4.1	
Inhalation:	Remove the affected person to fresh air. Keep the patient warm and at rest. 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.
Ingestion:	Not applicable
Skin Contact:	Burns should be flushed with tepid water to normalise temperature and until circulation returns. Cover the burns with sterile dressings. Do not apply ointments or powders. Obtain medical assistance immediately.
Contact with Eyes:	Cold burns should be flushed immediately with tepid water to normalise temperature. Hold eyelids apart while flushing to rinse entire surface of the eye and lids with water. Cover the eye with a sterile dressing and obtain medical assistance immediately.
Other:	<u>Protection for first-aiders:</u> No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Is health surveillance or monitoring required? Yes ☐ No ☒	

Personal Protective Equipment (state type and standard) - SDS Section 8.2			
 ☐		 ☐	
Dust Mask		Visor	
 ☐		 ☒	Chemical splash goggles should be worn if risk assessment indicates eye contact is possible
Respirator		Goggles	
 ☒	Wear suitable gloves to prevent cold burns and frostbite (Neoprene or LPG resistant Gauntlet Glove)	 ☒	Wear suitable overalls to prevent cold burns and frostbite
Gloves		Overalls	
 ☒	When handling cylinders wear protective footwear to BS EN345	 ☐	
Footwear		Other	

Storage Arrangements - SDS Section 7.2	
LPG must be stored in purpose designed mild steel cylinders or tanks or other systems of suitable pressure rating. These should be segregated from oxidant gases and other oxidants in store. Reference should be made to the relevant Codes of Practice for Safe Storage and Handling of LPG produced by HSE and UKLPG (see section 16 of msds). No smoking or naked lights. Switch off mobile phones. Store and use only equipment/ containers designed for use with this product. Store and dispense only in well ventilated areas away from heat and sources of ignition. Containers must be labelled properly. Do not remove warning labels from containers. Check that cylinders are within test date. If overdue for inspection they must be returned to supplier. Ensure that pipework and handling equipment are designed for the purpose, inspected and maintained and are electrically bonded and grounded (earthed) to prevent accumulation of static charge. Explosive air/vapour mixtures may form at ambient temperatures.	

Disposal of residual waste and Containers - SDS Section 13.1 and guidance	
Hazardous Waste ☐	Skip ☐ Return to Depot ☐ Return to Supplier ☒ Other (state) ☐
(If Other Please State):	

Firefighting measures, accidental release measures, toxicological information and ecological information are provided in the safety data sheet (attached).

Is exposure adequately controlled?	Yes ☒ No ☐
Risk Rating After Implementation of Control Measures (see guidance)	
High ☐	Medium ☐ Low ☒
Assessed by: Michael Watson	Date: 09 April 2018 Review Date: 01 September 2018