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| **Company Name: Dufell Roofing Ltd**  Site: | | NCSG-Logo- SUPPLIED BY MAC email 2 | **COSHH**  **Assessment** | |
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| Supplier: | Flogas | | COSHH Number | 69 |
|  |  | | | page 1 |
| Assessment By: | Activity: | | Review Date | Assessment Date |
|  | For use with blow torches and bitumen boilers. | | July 2017 | July 2016 |
|  | Persons/Groups at Risk | |  |  |
|  | Operatives | |  |  |

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| **NAME OF HAZARDOUS SUBSTANCE USED OR CREATED** |
| **Substance: LPG (Butane & Propane)** |



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|  | |  |  | |  |  | |  |  | |  | Health hazard | |  |  | |
| **FLAMMABLE** | |  | **TOXIC** | |  | **IRRITANT** | |  | **COMPRESSED GAS** | |  | **HARMFUL** | |  | **CORROSIVE** | |
| **YES** | **NO** |  | **YES** | **NO** |  | **YES** | **NO** |  | **YES** | **NO** |  | **YES** | **NO** |  | **YES** | NO |
| ✓ |  |  |  | ✓ |  |  | ✓ |  | ✓ |  |  |  | ✓ |  |  | ✓ |
| Insert ✓ in appropriate boxes | | | | | | | | | | | | | | | | |

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| Please add comments into boxes where required. | | Insert ✓ in appropriate boxes and add comment below | | **YES** | **NO** |
| Is Manufacturers Safety Data Sheet available? | | |  | ✓ |  |
| Does the Substance have a Workplace Exposure Limit (WEL)? | | |  | ✓ |  |
| If the substance has a WEL please state. if un-sure check HSE document – EH40 | | | 1750 mg/m3 (1000 ppm) 8-hour TWA reference period  2180 mg/m3 (1250 ppm) 15-min TWA reference period | ✓ |  |
| Can a safer substance be used or can the substance be enclosed or extracted. | | |  |  | ✓ |
| Will employees be given information and training? | | |  | ✓ |  |
| Will Personal Protective Equipment be provided for employees? | | |  | | |
| State the standard of RPE (respirators) | | |  |  | ✓ |
| State the standard of Goggles or Spectacles | | |  |  | ✓ |
| State the standard of Gloves | | | Neoprene or LPG resistant Gauntlet Glove | ✓ |  |
| State the standard of Overalls | | |  |  | ✓ |
| State the standard of Boots | | | EN ISO 20345:2004 | ✓ |  |
| Other Equipment | | | Attach details if YES |  | ✓ |
| Will Exposure Monitoring and/or Control Measures be required? | | | Attach details if YES |  | ✓ |
| Will Health Surveillance be necessary? | | | Attach details if YES |  | ✓ |
| Does this Substance need to be disposed of by a Waste Disposal Contractor? | | | | ✓ |  |
| Have all necessary First-aid and welfare requirements been provided? | | |  | ✓ |  |
| Have Storage requirements for the substance been provided / arranged on site? | | |  | ✓ |  |
| FIRST AID INSTRUCTIONS | | | | | |
| **Route of Exposure, or**  **Type of Injury** | **First Aid Treatment** | | | | |
| Skin Contact | 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. | | | | |
| Eye Contact | Cold burns should be flushed with water to normalise temperature. Cover the eye with a sterile dressing and obtain medical assistance immediately. | | | | |
| Inhalation | 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. | | | | |
| Ingestion | N/A | | | | |
| General Information | N/A | | | | |

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| **FIRE FIGHTING MEASURES** | |
| **Hazard** | **Measures** |
| Fire | These materials are delivered, stored and used at temperatures above their flash point. Avoid all naked flames, sparks, cigarettes, etc.  • IN CASE OF FIRE, IMMEDIATELY ALERT THE FIRE BRIGADE.  • Ensure an escape path is always available from any fire.  • If gas has ignited, do not attempt to extinguish but stop gas flow and allow to burn out.  • Use water spray to cool heat-exposed containers, and to protect surrounding areas and personnel effecting shut-off.  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.  **Extinguishing Media**  **Large Fire:**  • None. Product flow must be stopped and 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.  • DO NOT USE WATER JET  **Small Fire:**  • Dry Powder.  • DO NOT USE WATER OR FOAM.  Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus. |
| Stability | Flogas Liquefied Propane Gas is stable at ambient temperatures. Hazardous polymerization will not occur.  Conditions to avoid;  • Sources of ignition.  • Storage at above 50 Deg. C.  Materials to avoid;  • Strong Oxidizing agents (e.g. chlorates, which may be used in agriculture, peroxides) |
| Decomposition Products | The substances arising from the thermal decomposition of these products will largely depend upon the conditions bringing about decomposition. The following hazardous substances may be expected from normal combustion:  • Carbon Dioxide (CO₂);  Note: Carbon Monoxide (CO) may be produced if there is insufficient air for complete combustion. |

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| **MANUFACTURERS INFORMATION** | |
| **Manufacturers Name and Address** | FLOGAS BRITAIN LTD  81 Rayns Way,  Watermead Business Park,  Syston,  Leicester,  LE7 1PF  Telephone: 0116 264 9185 |
| **Manufacturers Health & Safety Data Sheet Reference** | EINECS NUMBER: 270-704-2  CAS NUMBER: 68476-85-7 |
| **24 Hour Emergency Telephone Number** | 03457 200 100 |
| **Regulatory Information: Warning Label Phrases** | H220: Extremely flammable gas.  H280: Contains gas under pressure; may explode if heated.  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. |

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| **STORAGE AND HANDLING** | |
| **Hazard** | **Measures** |
| Handling | GENERAL  Cylinders containing Flogas Liquefied Propane Gas may be designed to give liquid or vapour off-take.  • Vapour off-take cylinders must be used in an upright/vertical position with the outlet valve at the top of the cylinder.  • Liquid off-take cylinders must be used in the position indicated on the cylinder.  HANDLING PRECAUTIONS  • No Smoking or Naked Lights.  • Ensure good ventilation.  • Avoid inhalation of vapour.  • Avoid contact with liquid and cold storage containers.  • When handling cylinders wear protective footwear and suitable gloves.  • Avoid contact with the eyes. |
| Storage | STORAGE CONDITIONS  • No Smoking or Naked Lights.  • Store and use only in 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 properly labelled.  • Do not remove warning labels from containers. |

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| DISPOSAL MEASURES | |
| **Hazard** | Measures |
|  | Flogas cylinders are the property of Flogas Britain Limited and should be returned to the local dealer/stockist/authorised agent. Users are recommended to contact their local Flogas representative when they wish to dispose of surplus quantities of Flogas Liquefied Propane Gas.  Do not discharge product into areas where there is a risk of forming an explosive mixture with air.  Empty packages may contain some remaining product. 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 and vapour. Never incinerate, crush, weld, solder or braze empty containers. |

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| ACCIDENTAL RELEASE MEASURES | |
| **Hazard** | Measures |
| Spillage | IMMEDIATE EMERGENCY ACTION:  • Clear people away from the area to a safe place;  • Do not operate electrical equipment unless flameproof;  • Summon aid of emergency services;  • Treat or refer casualties if necessary.  FURTHER ACTION – FIRE  IF SAFE TO DO SO :  • Stop product flow  • Use dry powder or carbon dioxide extinguishers  • Cool containers exposed to fire by water fog/spray  FURTHER ACTION – SPILLAGE  IF SAFE TO DO SO:  • Extinguish naked lights, e.g. cigarettes – AVOID MAKING SPARKS.  • Position fire fighting equipment.  • Try to stop the flow of liquid product.  • Cover drains and disperse vapour with water spray.  Note: vapour may collect in confined spaces |

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| USAGE/EXPOSURE | |
| **Frequency and Duration of use** | Daily up to 8 hours. |
| **Maximum number of people involved in activity** |  |
| **Quantities stored/used** | 2 x 47kg cylinders |
| **Exposure levels** | N/A |

**Safe System of Work**

1. Ensure PPE is worn as specified in PPE section.

2. Ensure suitable fire extinguishers are in place prior to use.

3. Ensure a hot works permit is in place prior to use.

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**Operatives Acknowledgement**

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| **Name:** | **Signature:** | **Date:** | **Name:** | **Signature:** | **Date:** |
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