










COSHH ASSESSMENT FORM

Risk Assessment Reference Number: COSHH06		Date of Assessment: 31/10/2025	
Assessor/s: Jamie-Lee Macavoy		Name of Substance: Acetylene	
Date of Safety Data Sheet (SDS): 08/03/2021		Manufacturer: Boc Ltd	
Use (details of the way it is used): Fuel gas used for welding activities. Use in accordance with manufacturer's instructions.			
Frequency of Exposure: varies		Duration of Exposure: varies	
Workplace Exposure Limit (WEL): <input type="checkbox"/> Not Assigned		acetylene (ethyne)	2500ppm
Hazard Warning Symbols associated with substance (circle):			
 Explosive	 Corrosive	 Flammable	 Serious Health Hazard
		 Health Hazard	 Oxidising
		 Toxic	 Hazardous to Environment
		 Gas under Pressure	

Worst Case Outcome					Likelihood					Risk Rating Outcome X Likelihood		
5	4	3	2	1	5	4	3	2	1	High	Medium	Low
Fatality	Severe Injury	Lost time Injury	Minor Injury	No Injury	Certain	Very likely	likely	Unlikely	Remote	15-25	10-12	1-9

Persons affected by the Activity	Identified Hazards	Control Measures Already in Place	Outcome	Likelihood	Risk Rating	Is further action required Yes/No
Employees/ Contractors/ Others	Respiratory problems due to inhalation	Only trained, competent personnel are authorised to use product.	2 Minor Injury	2 Unlikely	4 Low	No



Employees	Ingestion (gastrointestinal irritation)	<p>Product only to be used in well ventilated areas. This product is not to be used under conditions of poor ventilation.</p> <p>Face shield required during welding activities. For movement of, no face protection requirement.</p> <p>Ensure hands are washed prior to eating, drinking and smoking.</p>	2 Minor Injury	1 Remote	3 Low	No
Employees/ Contractors/ Others	Irritation of eyes and skin/dermatitis due to contact	<p>Eye protection and protective gloves (welding gauntlet during welding activities) available and worn.</p> <p>EN166 eye protection, EN374 Gloves.</p> <p>Wear appropriate clothing to prevent repeated or prolonged skin contact.</p> <p>Use barrier creams available.</p> <p>Eye wash station available and adequate supply.</p> <p>Ensure good hygiene practices are followed.</p>	3 Lost time Injury	2 Unlikely	6 Low	No
Employees/ Contractors/ Others	Fire and explosion	<p>Minimal quantities are stored. Ordered as required.</p> <p>Suitable and sufficient fire extinguishers located in works areas.</p> <p>Product not used or stored in close proximity to sources of ignition.</p> <p>In case of fire: Stop leak if safe to do so. Do not extinguish flames at leak because possibility of uncontrolled explosive re-ignition exists. Continue water spray from protected position until container stays cool.</p> <p>See material safety data sheet for emergency procedures.</p>	5 Fatality	1 Remote	5 Low	No
Environment	Pollution and contamination to ground and watercourse	<p>Must be stored in line with manufacturers recommendations.</p> <p>Must be used in line with manufacturer's instructions.</p> <p>Must be disposed of in line with local waste conditions.</p>	1 No Injury	2 Unlikely	2 Low	No



		Stop at source, contain and clean up spill.				
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Further Control Measures						Further Control Measures Follow up			
						Allocated to (Name)	Target date	Date completed	
Review date/s:									
Reviewed By:									