

Working V	With Sulphuric Acid Risk A	ssessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Emai	
THIS RISK ASSESS	MENT IS APPROVED BY THE PC	BU OF TROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts.	person conducting a busine or ur	ndertaking PCBU required to ensu	ire that a RISK ASSESSMENT
Full Name:			
Signature:		ntle:	Date:
CL		DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project N			



				F	RISK MATRIX		
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE MA	JOR CATASTROPH			HIERARCHY OF CONTROLS
ALMOST CERTAIN	3 HIGH	3 HIGH		4 4 JTE ACUTE	SCORE	ACTION	Elimination Remove the hazard.
LIKELY	2 MODERATE	3 HIGH	U U U U U U U U U U U U U U U U U U U	4 4 JTE ACUTE	4A ACUTE	DO NOT PROCEED	Substitution Replace the hazard. Isolation
POSSIBLE	1 LOW	2 MODERATE		4 JTE ACUTE	3H HIGH	Rev before work art	Isolate People from the hazard Engineering Isolate the
UNLIKELY	1 LOW	1 LOW		3 Z GH ACU E	MC RATE	Ensure control measures in place.	Activité istrativ e Chang
RARE	1 LOW	1 LOW		3 GH H. 1	1L LOW	Monitor and keep records.	PP
 AA Stop work. The risk is intolerable, cominate the hazard predesign the activity before proceeding. A Safe Work Method Statement (SWMS) or his er-level authorisation is required. 3H Review and approve additional controls in controls in the control state of the control state o							1. Éliminate 2. Substitute 3. Isolate 4. Engineering
Consequence		injury/illness)	Project / Ass	Significant regula	pliance / Reputat		Always document why a lower-order control is accepted if
Catastrophic Major	Fatality or perma Serious injury/illr days)			wn prosecution	prosecution elimination or substitution is not reasonably p		elimination or substitution is not reasonably practicable. aligned with Safe Work Australia's Managing the risk of fatigue at
Moderate	Medical-treatmen	nt injury; lost-tim	e > 1 moderate dela	y Minor breach; ad			work (2023) and ISO 45001:2018 clauses 6–8.
Minor	First-aid only, no	lost time	negligible dela	y Isolated non-con	formance		
	Insignificant No injury no schedule impact Deviation caught and corrected on site						



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
1. Preparation	Spill of sulphuric acid, Inhalation of fumes	ЗН	 Ensure PPE is available: safety goggles, acid-resistent gloves, apron, and respirator Use chemical spill kits at hand Adequate ventilation in preparation area Workers trained on handling procedures Emergency shower and everyash stations accessible MSDS accessible for quick respence Inspect containers or new before use Use secondary containment for storae of resonatcals Planer safe vensfer respencies Ensule remmunication of potential hazards with all staff 	2M
2. Transport of Containers	Container rupture, Exposure to acid due to improper handling		 Use structured labeled containers made for transporting corrosive substances unploy roperating techniques to avoid drops Utilis analysis with containment capabilities onduct routine inspections of transport equipment Thain workers in safe manual handling techniques Implement buddy system for lifting Restrict transport area to authorised personnel only Maintain clear paths free of obstructions Brief team on emergency procedure if spill occurs Utilise signage to denote hazard zones 	2M
3. Storage	Chemical reaction due to improper storage, Leaks in storage area	4A	 Store acids in a cool, ventilated, and secure place Label stored materials clearly with hazard warnings Implement segregation by chemical type Regularly inspect containers for integrity Ensure storage area is equipped with appropriate spill containment and ventilation systems Implement automated monitoring for leaks Keep storage area access limited to qualified personnel Follow first-in first-out inventory system 	2M



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			- Arrange regular training on chemical compatibility	
			- Identify and maintain an updated storage map	
4. Pouring of Acid	Splashes causing skin burns, Fumes causing respiratory distress	4A		2M
5. Mixing Dilutions	Heat generation crossing burns, Explosive reaction of improper reactived	44		2М
6. Transferring Acid to Processes	Contact with skin, Inhalation of acid vapours	4A		2M

Version 2.5



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7. Equipment Cleaning	Residual acid on equipment, Improper waste disposal	ЗН		1L
8. Maintenance of Equipment	Chemical leaks during main such as Exposure to hazards an omponents	зн		1L
9. Emergency Preparedness	Inadequate response to acid spills, Poor communication during emergencies	4A		2M



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10. Disposal of Waste	Improper disposal causing environmental harm, Exposure to hazardous waste	4A		2М
11. Training and Induction	Unawareness of processores causing accidents, Inadequate skillset increasing risk	ЗН		2М
12. Supervision and Monitoring	Non-compliance with safety measures, Missed identification of hazards	ЗН		1L



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13. Incident Reporting and Investigation	Failure to report incidents, Incomplete investigation leading to recurrence	ЗН		1L
14. Review and Reassessment	Failure to update risk management uan, Unchecked adaptations a upper emerging risks	2М		1L
15. Decommissioning Equipment	Residual acid causing exposure, Incorrect decommissioning procedures	3Н		1L

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SPECIFIC WORK STEPS HAZARDS	DS THAT MAY ARISE	NL SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESIDUAL RISK Image: Control of the risk
	cP	



EMERGENCY RESPONSE – CALL 000 FOR EMERGENCIES

Ensure to have an Emergency Management Plan in place as well as adequate numbers of trained first aid staff with easy access to fully stocked first aid kits, rescue equipment, material safety data sheets, adequate access to emergency communication equipment and fire-fighting equipment suitable for all classes of fire and ignition sources.

LEGISLATIVE RE	FERENCES						
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCES ANY STATE AT ARE NOT APPLICABLE							
Queensland & Australian Capital Territory Work Health and Safety Act 2011 Work Health and Safety Regulations 2011 Legislation QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws Codes of Practice QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice Legislation ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice	Victoria Occupational Health and Safety Acta 24 Occupational Health and Safety Acta 24 Degistron VIC: <u>https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and- rulations</u> ordes of conactice VICouttps://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice						
New South Wales Work Health and Safety Act 2011 Work Health and Safety Regulations 2017 Legislation NSW: https://www.safework.nsw.gov.au/legal-obligations/legislati-codes-of-practice Codes of Practice NSW: https://www.safework.nsw.gov.au/legal-obligations/legislati-codes-of-practice	Western Australia Work Health and Safety Act 2020 Work Health and Safety Regulations 2022 Legislation Western Australia: <u>https://www.commerce.wa.gov.au/worksafe/legislation</u> Codes of Practice WA: <u>https://www.commerce.wa.gov.au/worksafe/codes-practice</u>						
Northern Territory Work Health and Safety (National Uniform Legislation) Act 2011 Work Health and Safety (National Uniform Legislation) Regulation 2011 Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/workplace-sected-aws</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/workplace-sected-aws</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/workplace-sected-aws</u>	Safe Work Australia Links Law and Regulation (All States): <u>https://www.safeworkaustralia.gov.au/law-and-regulation</u> Model Codes of Practice: <u>https://www.safeworkaustralia.gov.au/resources-publications/model- codes-of-practice</u>						
South Australia Work Health and Safety Act 2012 (SA) Work Health and Safety Regulations 2012 (SA) Legislation for SA: <u>https://www.safework.sa.gov.au/resources/legislation</u> Codes of Practice for SA: <u>https://www.safework.sa.gov.au/worf_aces/codes-of-practice#COPs</u>	Model Codes of Practice - Managing noise and preventing hearing loss at work - Confined spaces - Labelling of workplace hazardous chemicals - Managing risks of hazardous chemicals in the workplace - Welding processes						
Tasmania Work Health and Safety Act 2012 Work Health and Safety (Transitional and Consequential Provisions) Act 2012 Work Health and Safety Regulations 2012 Work Health and Safety (Transitional) Regulations 2012 Legislation for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations Codes of Practice for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice	 First aid in the workplace Managing the risk of falls at workplaces Hazardous manual tasks Managing the risk of falls in housing construction Managing electrical risks in the workplace Demolition work Excavation work Work health and safety consultation, cooperation and coordination 						
Details of permits, licenses or access required by regulatory bodies (add or delete as required): - Permits from local council - Authorisation to commence work - Any required documents.	 Managing the work environment and facilities How to manage work health and safety risks Managing risks of plant in the workplace Construction work 						