

## Backpack Sprayer Risk Assessment

Business Name:	ABN:	
Business Address:		
Contact Person:	Phone:	Email:

### THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THIS PROJECT

Under the Work Health and Safety Regulation (WHS Regulation), a person conducting a business or undertaking (PCBU) is required to ensure that a RISK ASSESSMENT is prepared before the proposed work starts.

Full Name:		
Signature:	Title:	Date:

### CLIENT OR PRINCIPAL CONTRACTOR DETAILS

Client:	SCOPE OF WORKS
Project Name:	
Project Address:	
Project Manager:	
Contact Phone:	
Date Risk Assessment supplied to Project Manager:	

RISK MATRIX										
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCORE	ACTION	HIERARCHY OF CONTROLS		
ALMOST CERTAIN	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCEED	<b>Elimination</b> Remove the hazard.		
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE			<b>Substitution</b> Replace the hazard.		
POSSIBLE	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	4 ACUTE			3H HIGH	Review before work starts.	Isolation Isolate People from the hazard
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE			2M MODERATE	Ensure control measures in place.	<b>Engineering</b> Isolate the hazard
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH			1L LOW	Monitor and keep records.	<b>Administrative</b> Change
								<b>PPE</b>		
<b>Risk Rating &amp; Required Action:</b>						<b>Notes on Hierarchy of Controls:</b>				
4A						Stop work. The risk is intolerable. Eliminate the hazard or redesign the activity before proceeding. A Safe Work Method Statement (SWMS) or higher-level authorisation is required.				
3H						Review and approve additional controls before task starts. Senior supervisor sign-off needed.				
2M						Ensure all nominated controls are in place and effective. Proceed with caution; monitor conditions.				
1L						Proceed, following standard operating procedures. Monitor and keep records.				
<b>Consequence Scale:</b>										
Consequence	People (injury/illness)		Project / Assets		Compliance / Reputation					
Catastrophic	Fatality or permanent total disability		project shutdown		Significant regulator intervention; criminal prosecution					
Major	Serious injury/illness (hospital > 5 days)		critical delay		Improvement notice; major media coverage					
Moderate	Medical-treatment injury; lost-time > 1 day		moderate delay		Minor breach; adverse client comment					
Minor	First-aid only, no lost time		negligible delay		Isolated non-conformance					
Insignificant	No injury		no schedule impact		Deviation caught and corrected on site					
						Always document <b>why</b> a lower-order control is accepted if elimination or substitution is not reasonably practicable.				
						aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.				

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	Slip hazards, Chemical exposure	3H	<ul style="list-style-type: none"> <li>- Ensure all surfaces are dry and free of obstructions</li> <li>- Use PPE including gloves and goggles during preparation</li> <li>- Conduct a site walkthrough to identify potential slip hazards</li> <li>- Ensure adequate ventilation in preparation area</li> <li>- Verify that all chemicals are properly labelled and stored safely</li> <li>- Train staff on emergency procedures for chemical spills</li> <li>- Provide spill kits and ensure easy access</li> <li>- Use non-slip footwear</li> <li>- Establish communication protocol if assistance is required</li> <li>- Inspect equipment for any leaks or damages before use</li> </ul>	2M
2. Filling Tank	Spillage, Incorrect mixing	3H	<ul style="list-style-type: none"> <li>- Use a funnel to avoid spillage</li> <li>- Follow chemical manufacturer's instructions for mixing</li> <li>- Ensure the sprayer is stable during filling process</li> <li>- Wear appropriate PPE such as gloves and eye protection</li> <li>- Use drip trays to catch any potential spills</li> <li>- Conduct regular training on mixing procedures</li> <li>- Clearly label all chemical containers</li> <li>- Have an emergency eyewash station near the filling area</li> <li>- Use measuring tools for accurate chemical measurements</li> <li>- Avoid distractions or rushed behaviour during mixing</li> </ul>	2M
3. Transporting the Sprayer	Tripping, Equipment damage	3H	<ul style="list-style-type: none"> <li>- Use trolleys or other aids for transportation over long distances</li> <li>- Keep walkways clear and well-lit</li> <li>- Inspect pathways in advance for any tripping hazards</li> <li>- Do not overfill the sprayer to avoid excessive weight</li> <li>- Use proper lifting techniques</li> <li>- Secure the sprayer during transportation to prevent toppling</li> <li>- Train workers on safe transport practices</li> <li>- Communicate any pathway changes to all staff</li> </ul>	2M

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			<ul style="list-style-type: none"> <li>- Schedule regular maintenance to ensure the sprayer is leak-free</li> <li>- Provide additional staffing for moving heavy equipment</li> </ul>	
4. Donning PPE	Inadequate protection, Incorrect PPE	3H	<ul style="list-style-type: none"> <li>- Provide training on proper PPE use</li> <li>- Ensure PPE is in good condition</li> <li>- Provide additional PPE as needed</li> <li>- Ensure PPE is worn at all times</li> <li>- Provide additional PPE as needed</li> <li>- Ensure PPE is worn at all times</li> <li>- Provide additional PPE as needed</li> <li>- Ensure PPE is worn at all times</li> <li>- Provide additional PPE as needed</li> <li>- Ensure PPE is worn at all times</li> </ul>	1L
5. Calibration of Equipment	Inaccurate spraying Equipment malfunction	3H	<ul style="list-style-type: none"> <li>- Provide training on proper equipment use</li> <li>- Ensure equipment is in good condition</li> <li>- Provide additional equipment as needed</li> <li>- Ensure equipment is used at all times</li> <li>- Provide additional equipment as needed</li> <li>- Ensure equipment is used at all times</li> <li>- Provide additional equipment as needed</li> <li>- Ensure equipment is used at all times</li> <li>- Provide additional equipment as needed</li> <li>- Ensure equipment is used at all times</li> </ul>	2M
6. Conducting Test Spray	Chemical exposure, Environmental hazards	3H	<ul style="list-style-type: none"> <li>- Provide training on proper equipment use</li> <li>- Ensure equipment is in good condition</li> <li>- Provide additional equipment as needed</li> <li>- Ensure equipment is used at all times</li> <li>- Provide additional equipment as needed</li> <li>- Ensure equipment is used at all times</li> <li>- Provide additional equipment as needed</li> <li>- Ensure equipment is used at all times</li> <li>- Provide additional equipment as needed</li> <li>- Ensure equipment is used at all times</li> </ul>	2M

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7. Applying Chemicals	Overexposure, Environmental damage	4A		2M
8. People in Vicinity	Chemical exposure to bystanders, Unexpected interactions	4A		2M
9. Equipment Cleaning	Chemical residue, Inhalation risks	3H		1L

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10. Safe Storage	Leaking chemicals, Unauthorized access	3H		2M
11. Maintenance of Sprayer	Equipment malfunction, Parts failure	3H		2M
12. Reviewing Procedures	Outdated protocols, Process inefficiencies	2M		1L

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13. Training	Insufficient knowledge, Non-compliance	3H		1L
14. Incident Reporting	Delayed reporting, Incomplete records	3H		2M
15. Emergency Response	Inadequate response time, Miscommunication	4A		2M

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SAMPLE



## 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 REFERENCES

RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCES IF ANY STATE THAT 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/acts-and-regulations>

Codes of Practice ACT: <https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice>

### Victoria

Occupational Health and Safety Act 2004

Occupational Health and Safety Regulations 2017

Legislation VIC: <https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and-regulations>

Codes of Practice VIC: <https://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/legislation>

Codes of Practice NSW: <https://www.safework.nsw.gov.au/resource-library/list-codes-of-practice>

### Western Australia

Work Health and Safety Act 2020

Work Health and Safety Regulations 2022

Legislation Western Australia: <https://www.commerce.wa.gov.au/worksafe/legislation>

Codes of Practice WA: <https://www.commerce.wa.gov.au/worksafe/codes-practice>

### Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulations 2011

Legislation NT: <https://worksafe.nt.gov.au/laws-and-compliance/workplace-safety-laws>

Codes of Practice NT: <https://worksafe.nt.gov.au/laws-and-compliance/codes-of-practice>

### Safe Work Australia Links

Law and Regulation (All States): <https://www.safeworkaustralia.gov.au/law-and-regulation>

Model Codes of Practice: <https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice>

### 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
- 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
- Managing the work environment and facilities
- How to manage work health and safety risks
- Managing risks of plant in the workplace
- Construction work

### South Australia

Work Health and Safety Act 2012 (SA)

Work Health and Safety Regulations 2012 (SA)

Legislation for SA: <https://www.safework.sa.gov.au/resources/legislation>

Codes of Practice for SA: <https://www.safework.sa.gov.au/workplaces/codes-of-practice#COPs>

### 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>

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.