

Risk Assessment Hazardous Chemicals



Hazards Requiring Attention:

0

AS AT

Wednesday, 13 August 2025

Next Review

Thursday, 13 August 2026

Total Hazards Recorded

10

Critical Risk Hazards

0

High Risk Hazards

0

Moderate Risk Hazards

3

Low Risk Hazards

7

Risk Matrix - Refer Procedure Hazard Identification

Probability	Low	Minor	Moderate	Major	Critical
Negligible	L2	L3	L4	M5	M6
Unlikely	L3	L4	M5	M6	H7
Possible	L4	M5	M6	H7	H8
Likely	M5	M6	H7	H8	E9
Almost Certain	M6	H7	H8	E9	E10

Hazardous Chemicals

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
Site Management	Information on hazardous chemicals	4	4	H8	1 - SDS Register maintained in the site labratory. 2 - SDS Register msintained in any site vehicle used for transport of chemicals. 3 - SDS arrangements communicated are part of site induction. 4 - SDS information updated through Toolbox Talks as required.	2	3	M5
Substance Labelling	Unidentified Substances due to Damaged or Unlabelled Containers	3	4	H7	1 - Labels are maintained in accordance with the NSW Code of Practice for the Labelling of Workplace Hazardous Chemicals, Section 2.1 2 - Labels that are illegible must be replaced. 3 - Chemicals are not to be stored in unmarked containers.	2	3	M5
Storage	Incorrect storage of Flammable, Conbustable Substances	4	3	H7	1 - Minimum quantities to be stored. 2 - Substances that are identified by their SDS as flammable/combustable are to be stored in a flammable liquids cabinet. 3 - Storage of fuel for site vehicles is to be kep to a minimum. A suitable storage tanks.	2	3	M5
Elimination	Eliminate the use of the substances.	4	3	H7	Using a physical process instead of a chemical process e.g. using an ultrasound to clean equipment instead of a process involving chemicals; using clips/bolts or nails instead of adhesive.	2	2	L4
Identification	Incorrect use or handling	3	3	M6	Reference the SDS Folder on site & in each vehicle before proceeding with handling any chemical found or used	2	2	L4

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
Substitution	Use a safer substance or a safer form of the substance.	4	4	H8	Safe Substance 1 - Use detergent instead of chlorinated solvent for cleaning. 2 - Use water-based chemicals instead of solvent – based. 3 - Chemicals where compatible. Safer Form or Process 1 - Paint with a brush instead of spraying. 2 - Purchase a substance in a safer form.	2	2	L4
Isolation	Separate people or property from the substance by distance or barriers	3	3	M6	1 - Used closed systems. 2 - Isolate the process in a room with restricted access use appropriate barriers to separate substances. 3 - Distance workers from substances/processes through the use of remote controls. 4 - Distance property, incompatible chemicals and ignition sources from goods.	2	2	L4

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
Engineering	Use physical controls (such as plant/equipment) that eliminate or reduce the generation of substances; suppress or contain substances; or limit the area of contamination in the event of spills and leaks	3	3	M6	1 - Use fully or partially enclosed ventilation booths. 2 - Fully or partially enclose the process with exhaust extraction. 3 - Use local exhaust or natural ventilation systems 4 - Design buildings that are: compatible with the intended goods; made of non-combustible construction as far as is practicable; designed to reduce contamination. 5 - Use Bunding to contain spillage. 6 - Install drains, tanks or sumps to cope with spilled material. 7 - Install automatic fire protection and chemical suppression systems	2	2	L4

Activity	Hazard	Probability	Consequence	Ranking	Control	Probability	Consequence	Ranking
Administration	Use safe work practices including good housekeeping.	4	3	H7	1 - Reduce the amount of property or the number of employees exposed. 2 - Reduce the duration and/or frequency of exposure e.g. through job rotation. 3 - Reduce the amount of goods/products stored and used. 4 - Ensure safe interim storage of wastes/products (e.g. labelled properly in suitable containers stored away from people, the environment, incompatible chemicals, 5 - Vacuum or wet sweep to suppress dust being generated. 6 - Cover containers and make sure lids are attached. 7 - Clean up spills immediately (includes provision of suitable aids and equipment). 8 - Ensure there is no eating, drinking or smoking in areas where substances are used. 9 - Provide suitable washing facilities. 10 - Instruct employees on how to use substances/equipment safely.	2	2	L4
Personal Protective Equipment (PPE)	Provide protective clothing and equipment for employees, supervisors and visitors. NB: Items must be compatible with chemical(s) being used/stored.	4	3	H7	1 - Overalls, aprons, gowns, chemical resistant suits. 2 - Footwear (enclosed shoes, safety boots). 3 - Gloves. 4 - Chemical resistance glasses (safety glasses). 5 - Face shield/masks, respirators (full or partial). 6 - Head protection	2	2	L4