Advice on Completing Chemical Risk Assessments – 4

An tÚdarás Sláinte agus Sábháilteachta
Health and Safety Authority

Please note that this sample document is for information purposes only. Your own risk assessment form may be in a different format. **Advice comments will appear when you hover over the 'comment icon'.**

This is a simplified extract from an actual document found on site. This is a manufacturing activity that is carried out by 1 worker. An alternative option is also shown below.

Formulation Instructions and Risk Assessment

	Instructions A	Controls
1	Add 50 litres water to Tank A	
2	Weigh and add 50kg powder to tank	Wear dust mask, wear gloves
3	Close lid and turn on mixer	No PPE required
4	Add 5 litres of solvent directly to tank	Wear half face mask
5	Weigh and add 34kg powder to tank	Wear dust mask, wear gloves
6	Mix and slowly add 10 litres of solvent to tank	Wear half face mask, wear gloves
7	After 15 minutes, transfer to Tank B via valve and pipework **Repeat as required**	No PPE required

New Option

	Instructions & Controls	Hazards
1	Wear powered respirator with A2P3 filter	• Powder X contains silica - Exposure to silica dust during weighing, addition to tank and sweeping - can cause silicosis • Solvent vapours can cause headaches, dizziness, and defatting of skin • There is 1 hour clean up at end of shift – dry sweeping of dust, rinsing of tank using solvent containing benzene which causes cancer
2	Wear nitrile rubber gloves to EN374, 1 mm thick. Dispose of after each cycle	TO DO • Manual handling risk assessment required for powder drums and solvent • Health surveillance to be provided – check with Occupational Health Provide • Develop risk reduction plan e.g. to eliminate dry sweeping • Tank Maintenance risk assessment required
3	Add 50 litres water to Tank A	
4	Weigh PowderX in 10kg batches and add 50kg powder to tank	
5	Close lid and turn on mixer	
6	Add 5 litres of solvent Y directly to tank	
7	Weigh and add 34kg powder Z to tank	
8	Mix and slowly add 10 litres of solvent Y to tank	
9	After 15 minutes, transfer to Tank B via valve and pipework	
10	Process takes approximately 1 hour and is carried out 6 times per day **In event of malfunction contact Service Technician immediately** **In event of spill, continue wearing PPE and use spill material located in area and dispose of waste in chemical shed containers**	