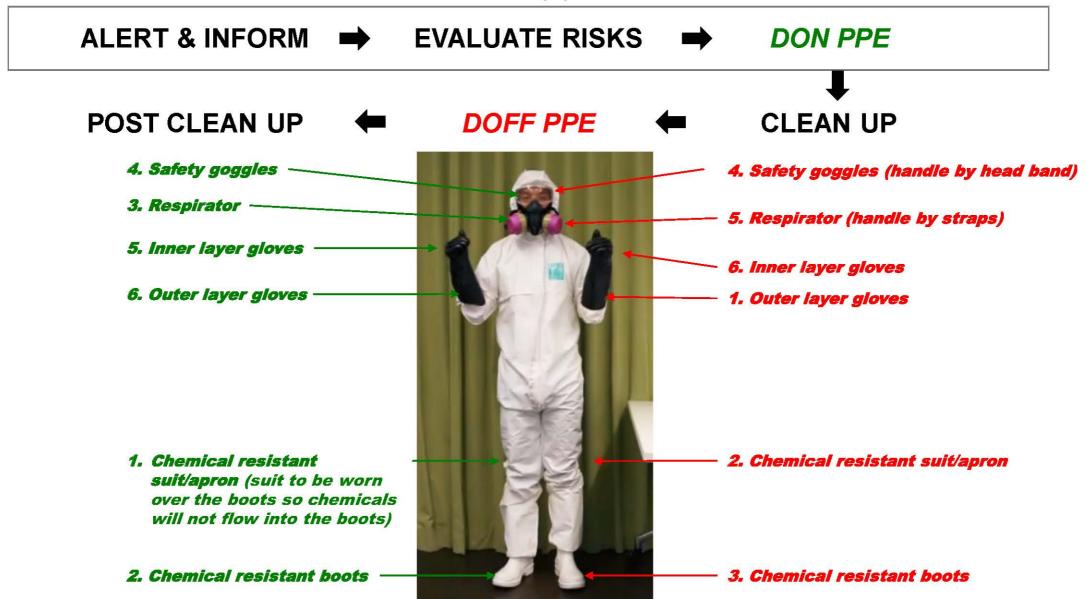
HOW TO RESPOND DURING CHEMICAL SPILL

Work in buddy system



CHEMICAL SPILL RESPONSE PROCEDURES

Scenario 1: Chemical Spill *OUTSIDE* Fume hood

Raise Alarm	1. Alert and inform. Place warning sign to cordon off the spill area.
Contain & Disinfect	 Evaluate risk and extent of chemical spill. Refer to safety data sheet for detailed information of chemical hazards. Don PPE. Place absorbent booms to contain spill. Encircle spill area with proper neutralizing agent (acid neutralizer/base neutralizer). Handle any sharp objects with tongs. Gently sweep small broken glass pieces into dust pan to prevent generation of dust. Discard into sharps container. Read neutralizing container to determine correct contact time or observe any colour change for material to be neutralized. Carefully sweep/shovel up spilled materials and ensure area is completely neutralized by pH paper. Collect contaminated materials with tongs. Discard waste into double chemical resistant hazardous waste bag. Clean up area with water. Allow to air-dry.
Dispose & Notify	 Doff PPE. Dispose chemical waste into double chemical resistant hazardous waste bag. Waste shall be collected during quarterly chemical waste disposal exercise organized by RFM. Label bag with chemical waste label. Wash hands with antiseptic soap. Notify PI/supervisor and report incident to OSHE via AIMS within 24 hours.

CHEMICAL SPILL RESPONSE PROCEDURES

Scenario 2: Chemical Spill INSIDE Fume hood

a E	1. Shut the sash of fume hood.
Raise Alarm	2. Alert and inform. Place warning sign to cordon off the spill area.
Contain & Disinfect	3. Evaluate risk and extent of chemical spill. Refer to safety data sheet for detailed information of chemical hazards.
	4. Don PPE (Respirator and chemical resistant boots not necessary). Do not place head inside fume hood.
	5. Place absorbent material to contain spill. Encircle spill area with proper neutralizing agent (acid neutralizer/base neutralizer).
	6. Read neutralizing container to determine correct contact time or observe any colour change for material to be neutralized. Carefully sweep/shovel up spilled materials and ensure area is completely neutralized by pH paper. Collect contaminated materials with tongs. Discard waste into double chemical resistant hazardous waste bag.
	7. Clean up area with water. Allow to air-dry.
	8. Doff PPE.
	9. Dispose chemical waste into double chemical resistant hazardous waste bag. Waste shall be collected during quarterly chemical waste disposal exercise organized by RFM. Label bag with chemical waste label.
ose tify	10. Wash hands with antiseptic soap.
Dispose & Notify	11. Notify PI/supervisor and report incident to OSHE via AIMS within 24 hours.
	12. Engage certification vendor to disinfect interior parts of fume hood (ducts, filter, fans) if necessary.
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REFERENCES

- Chemical Spill Response (OSHCHM05)
- NUS Laboratory Chemical Safety Manual (NUS/OSHE/M/02)
- Yong Loo Lin School of Medicine Safety Manual, 4th Edition.