 NUS National University of Singapore	Department of Medicine		Doc. No:	SOP-Medicine-04
	Standard Operating Procedure		Ver No:	004
	Title: Chemical Waste Disposal		Page:	1 of 4

Adeline Chow Prepared by	Prof Anantharaman Vathsala Approved By	29-10-2021 Issue Date
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1. OBJECTIVE

This standard operating procedure outlines the process in which chemical waste generated in the research laboratories of Department of Medicine located at MD1, MD6 and NUH are to be disposed of in a safe and environmentally sound manner.

2. SCOPE

This chemical waste disposal procedure is applicable to all staff and students and details how the chemical waste are to be transported from the laboratory to the cargo/service lift.

3. RESPONSIBILITY AND ACCOUNTABILITY


- 3.1 The principal investigator is to provide on-the-job training for all laboratory staff and students for the safe disposal of chemical waste and ensure that they abide by the guidelines established in accordance to the applicable local legislations. The principal investigator shall also ensure that all waste chemical containers are properly labelled, wastes are segregated and stored at the designated storage areas by consulting relevant sections of safety data sheets and maintain good housekeeping for all chemical wastes stored in the common area under his/her jurisdiction.
- 3.2 Staff and students working with hazardous chemical waste must be aware of potential hazards by referring to safety data sheets, obtain proper training on chemical waste disposal and knowledgeable of this SOP.
- 3.3 YLLSOM Research Facilities Management (RFM) team is responsible for liaising with the NEA-licensed chemical waste contractor, on the relevant waste disposal requirements for MD1 and MD6 building.

4. CHEMICALS FOR DISPOSAL

These may include accumulated generated wastes; unused, unopened or unknown chemicals; obsolete or expired chemicals or substances; empty chemical containers (including those used to contain hazardous chemicals) or spill residues.

5. CHEMICAL SAFETY TRAINING

All individuals who handle chemical waste are required to complete Chemical Safety (OSHCHM01) Training via LumiNUS.

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6.3 Waste Disposal

- a. The chemical waste disposal exercise in MD1 and MD6 laboratories are conducted by the YLLSOM Research Facilities Management (RFM) team. The RFM team will arrange for NEA-licensed waste collector to collect hazardous waste.
- b. Laboratories that wish to participate in the disposal exercise are required to submit the chemical waste disposal list for consolidation and verification.
- c. Once the vendor has been selected by RFM, an email notification will be sent to the safety leads to confirm the actual date for chemical disposal.
- d. The laboratory shall send a representative to transfer the chemical waste to the designated collection point during the disposal exercise at the assigned time slot.
- e. Laboratory personnel handling the chemical waste shall don the appropriate PPE (long sleeve laboratory coat, covered-toe shoes, nitrile gloves and safety glasses).
- f. Use the ChemSafe transporter trolley to transport the chemical waste or secondary containers to waste collection point. Make sure the trolley doors are closed.
- g. The segregated chemical wastes are transported down by the unmanned service lift by representatives from RFM.
- h. In NUH labs, the lab arranges for NEA-licensed waste collector. To source: <http://www.nea.gov.sg/docs/default-source/anti-pollution-radiation-protection/chemical-pollution/Toxic-Industrial-Waste/list-of-tiw-collectors.pdf>
A consignment note shall be completed for all hazardous waste collected.

7. ACCIDENT AND INCIDENT REPORTING

Accidents resulting in injuries or spill incidents must be reported to the PI and/or laboratory safety lead immediately after first aid is applied.


Seek medical attention when necessary at the University Health Centre or proceed to the Accident & Emergency units of National University Hospital after office hours.

All incidents or accidents have to be notified to OSHE within 24 hours via the online NUS Accident and Incident Management System (AIMS)

@https://inetapps.nus.edu.sg/osh/portal/eServices/ehs360_aims.html. The AIMS report can be submitted by the injured staff/student, safety leads, his or her supervisor/representative if the staff or student is unfit/unable to do the initial report.

8. REFERENCES

NUS Laboratory Chemical Safety Manual (NUS/OSHE/M/02)

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9. REVISION HISTORY

Date Revised	Version No.	Author	Summary of Revisions
16-03-2016	001	Yeo Soh Bee	
01-10-2016	002	Yeo Soh Bee	Section 7: Revised Accident and Incident Reporting System (AIRS) to Accident and Incident Management System (AIMS)
15-04-2019	003	Yeo Soh Bee	Edited Section 6.3: Waste Disposal
29-10-2021	004	Adeline Chow	Update of HOD Section 5: Update of safety training portal Section 6.2: Update of segregation and storage