



## Hazardous Waste Management Standard Operating Procedure (SOP)

Effective management of hazardous waste is essential to ensure the safety of individuals and protect the environment. Sanskrithi School of Engineering (SSE) follows a comprehensive SOP to handle and manage hazardous chemicals in a controlled and safe manner. The key steps outlined in the SOP are as follows:

**Purpose:** The purpose of this SOP is to establish protocols for the careful handling and usage of hazardous chemicals to prevent accidents and ensure the well-being of individuals.

**Scope:** This procedure is applicable to both dry and wet chemistry labs, as well as major and minor instrument labs that involve the use and storage of hazardous and dangerous substances.

Procedure:

1. Hazardous Signage Awareness: All individuals handling chemicals must be aware of hazardous signage and understand the associated risks.
2. Safety Sign and Material Safety Data Sheet: Always follow safety signs and refer to Material Safety Data Sheets (MSDS) for proper handling guidelines when working with hazardous chemicals.
3. Personal Protective Equipment (PPE): Use appropriate personal protective equipment such as gloves, safety goggles, and respirators when handling hazardous chemicals to minimize exposure.
4. Chemical Transfer and Solution Preparation: Hazardous chemical transfers and solution preparations should be performed in designated fume hoods to ensure proper ventilation and containment.
5. Safe Pouring and Siphoning: Maintain a safe distance from the chemical container while pouring or siphoning chemicals to avoid accidental exposure.
6. Pipetting: Utilize suction bulbs or vacuum bulbs during pipetting procedures to minimize the risk of chemical contact.
7. Proper Method and Preparation: Follow approved protocols and procedures specific to the nature of the chemicals being used for safe and accurate preparation.



  
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8. Storage of Flammable Substances: Store flammable liquids and substances away from naked flames or electric sparks to prevent ignition and potential accidents
9. Spill Cleanup: In the event of a spillage, clean the area immediately using appropriate spill kits and procedures.
10. Chemical Storage: Store chemicals in designated storage cabinets based on their compatibility and ensure proper labeling and organization.
11. Bulk Chemical Containers: Avoid using bulk chemical containers for routine analysis to minimize the risk of exposure and accidents.
12. Safety Signs on Reagent Bottles: Always adhere to safety signs and take necessary precautions when handling reagent bottles.
13. Disposal of Leftover Chemicals: Dispose of leftover chemicals in designated remote areas near the college, following proper disposal protocols and regulations.

By adhering to this SOP, SSE ensures the safe handling and management of hazardous chemicals, mitigating potential risks and safeguarding the well-being of individuals and the environment. The institution's commitment to responsible hazardous waste management underscores its dedication to maintaining a safe and sustainable learning environment.

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