**Standard Operating Procedure**

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| **Chemical name/class:** | **Phenolphthalein** | **CAS #: 77-09-8** |
| **PI:** |  | **Date:** |
| **Building:** |  | **Room #:** |

1. **Circumstances of Use:**

***This SOP must be customized for each lab using Phenolphthalein. Use this section to describe the circumstances of use, including concentration and quantity as well as identification of a designated work area.***

2. **Potential Hazards:**

 Phenolphthalein is classified by the International Agency for Research on Cancer (IARC) as **Group 2B, possibly**

**carcinogenic to humans.**

 Phenolphthalein is a suspected reproductive hazard and mutagen.

 Phenolphthalein is suspected of damaging fertility.

* Phenolphthalein is irritating to the GI tract and may cause kidney damage.

3. **Engineering Controls:**

 Work with this material in a certified fume hood.

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| 4. | **W** | **ork Practice Controls:** |
|  |  | ***It is expected that only competent persons with specific training and experience will be handling this or its mixtures.*** |
|  |  | Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling this chemical. |
|  |  | Work with this chemical should always be conducted with a fully functional and tested safety shower nearby. |

5. **Personal protective equipment (PPE):**

 PPE: ANSI approved safety glasses or goggles, nitrile gloves, and full length lab coats are recommended when handing Phenolphthalein. Respiratory protection is generally not practical in most situations, with reliance on engineering controls most acceptable.

6. **Transportation and Storage:**

* **Group VII – Non-Volatile Toxin.**
* Can be stored in an enclosed cabinet or shelf to protect from breakage below bench level.
* Transport in a secondary container that has enough volume to store contents of primary container should it break.

7. **Waste Disposal:**

Handle and store following the guidelines above while accumulating wastes and awaiting chemical waste pickup. Chemical waste must be disposed of following UNC Charlotte’s Laboratory Chemical Waste Management practices: <http://safety.uncc.edu/laboratory-and-research-safety/hazardous-universal-waste>

8. **Exposures/Unintended contact:**

 Skin: Remove all contaminated clothing. Flush the affected area for fifteen minutes with large amounts of water. Seek medical attention.

 Eye: Remove contact lenses. Immediately flush eyes for fifteen minutes. Take victim to a physician as soon as possible.

 Inhalation: Immediately move to fresh air. Seek medical attention.

 Ingestion: Wash mouth out with water. Seek medical attention.

The work-related injury or illness report found at:

<https://safety.uncc.edu/services/workers-compensation>

9. **Spill Procedure:**

In the event of a small spill of Phenolphthalein, assess the extent of danger. Inform personnel in the immediate area of the spill and ensure they are a safe distance from the spill. Confine the spill with absorbent material or a spill kit. Soak up the chemical with absorbent material (vermiculite) or a spill pillow, place in a container, and label the container with the contents of the container and the words “Hazardous Waste.” Contact EHS for disposal.

On the UNC Charlotte campus, “large” spills must be referred to the Campus Police by calling 911 from a campus phone or 704-687-2200 from any landline or cellphone.

10.  **Training of personnel:**

All personnel are required to complete the UNC Charlotte EHS Laboratory Environment Training Checklist. This checklist includes an introduction to general chemical safety as well as review of the laboratory specific safety plan. Furthermore, all personnel shall read and fully adhere to this SOP when handling the chemical.

**“I have read and understand this SOP. I agree to fully adhere to its requirements.”**

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| **Last** | **First** | **UNC Charlotte ID** | **Signature** |
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