# Standard Operating Procedures for Formaldehyde (Formalin, Paraformaldehyde)

# For an Emergency refer to the Safety Data Sheet

Formaldehyde is a gas at room temperature and readily evaporates making inhalation the primary route of exposure. Formalin and paraformaldehyde solutions can emit formaldehyde gas above permissible limits.

#### Hazards:

Carcinogen- known to cause cancer in humans

Irritant- Eyes, mucous membranes

Toxin- Reproductive system, kidneys, liver, CNS

Sensitizer- Chronic exposure can cause allergy type symptoms

# **Chemical handling instructions:**

#### Personal Protective Equipment (PPE):

Those handling formaldehyde must wear chemically resistant gloves, lab coat, eye protection, and appropriate lab attire (pants, closed-toe shoes).

If manipulations will occur outside of a chemical fume hood, personnel must wear respirator equipped with a formaldehyde filter until an exposure assessment can be conducted.

# Preparing formaldehyde solutions:

- 1. Those preparing formaldehyde solutions must always handle it inside a certified chemical fume hood.
- 2. Care should be taken to not generate any aerosol during the preparation or injection procedure.

# Waste disposal:

- 1. Any leftover/unused formaldehyde should be collected for disposal as chemical waste.
- 2. Used needles/syringes should be disposed in a sharps container destined for incineration.
- 3. Contact the Safety Office at x2697 or <u>SafetyOffice@unthsc.edu</u> for hazardous waste pickup.

# **Animal Experiments**

There are no additional precautions required for usage in animals.