**Standard Operating Procedure for Laboratories**

**3,3’-DICHLOROBENZIDINE**

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| --- | --- |
| Department: | Click here to enter text. |
| Principal Investigator(s): | Click here to enter text. |
| Lab Manager/Coordinator: | Click here to enter text. |
| Location of Experiment:  (Building/Room Number) | Click here to enter text. |
| Lab Phone: | Click here to enter text. |
| Office Phone: | Click here to enter text. |
| Emergency Contact: (Name/Phone) | Click here to enter text. |

**Reviewed and Approved by**:

|  |  |  |
| --- | --- | --- |
| PI: (Typed Name) | Click here to enter text. | |
| PI: (Signature and Date) |  | Click here to enter a date. |
| Lab Manager: (if PI unavailable) |  | Click here to enter a date. |

**Hazardous Material Use and Management**

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| Hazardous Material(s) Used: (wt./volume) | 3,3’-Dichlorobenzidine:  Maximum amount allowed without PI approval: |
| Hazardous Material Storage Location: | Store in a dry, cool and well-ventilated place in a tightly closed containers.  Designated Storage Area: |
| Experimental Procedure and Lab Technics to be Used: | Click here to enter text. |
| Hazard Identification: (i.e., physical/health hazards) | **CAS # 91-94-1**  **GHS Classification: Carcinogen. Acutely toxic to skin. Skin sensitizer. Very toxic to aquatic life with long lasting effects.**   * Confirmed carcinogen with experimental carcinogenic and tumorigenic data. * Human mutation data reported. * When heated to decomposition it emits very toxic fumes of chlorine and nitrogen oxides.   OSHA: Carcinogen  NIOSH: Carcinogen  Review MSDS/SDS prior to working with chemical. |
| Engineering Controls: (chemical fume hood, biosafety cabinet, glove box) | Use in chemical fume hood with adequate exhaust.  Eyewash and safety showers must be readily available. |
| Protective Equipment: | Use chemical resistant gloves.  Wear Safety glasses with side shields.  Wear lab coat, long pants and closed-toe shoes.  Check with glove manufacturer for more info. |
| Waste Collection/Disposal Method: | Waste should be collected in tightly closed container, in secondary containment and in a designated location inside a fume hood. Affix and complete hazardous waste label. Contact REHS for waste pick up.  <https://halflife.rutgers.edu/forms/hazwaste.php> |
| Spill Management: | Avoid dust formation. Avoid breathing vapors or mist. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Do not let it enter drain.  If a spill happened outside fume hood, on floor, on bench or outside the lab contact REHS for clean up or call 911. |
| First Aid: | Eyes: Flush eyes with warm water for 15 min.  Skin: Flush affected skin with plenty of water. Consult a physician.  Inhalation: Remove to fresh air. If breathing is difficult give oxygen. Seek medical attention.  Ingestion: Rinse mouth with water. Consult a physician. |

**Training**

* Prior to conducting any work with 3,3’-dichlorobezidine, designated personnel must be provided training specific to the hazard involved in working with the substance.
* The PI must provide his/her lab personnel with a copy of the SOP and a copy of the SDS provided with the manufacturer.
* The PI must ensure that his/her lab personnel have attended and are up to date on the appropriate laboratory safety training within the last year.

I have read and understood the content of this SOP and the SDS:

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| --- | --- | --- |
| Lab Personnel  (Running the Experiment) | Date of Hands-on Training from Department | Signature of Lab Personnel |
| Click here to enter text. | Click here to enter text. |  |
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| Click here to enter text. | Click here to enter text. |  |

**3,3’-DICHLOROBENZIDINE**

**Carcinogen. Acutely toxic to skin. Skin sensitizer. Very toxic to aquatic life with long lasting effects**

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**FIRST AID**

**Eyes**: Flush eyes with warm water for 15 min.

**Skin**: Flush affected skin with plenty of water. Consult a physician.

**Inhalation**: Remove to fresh air. If breathing is difficult give oxygen. Seek medical attention.

**Ingestion:** Rinse mouth with water. Consult a physician

**DIAL 911 Call REHS for more information 848-445-2550**