**Standard Operating Procedure for Laboratories**

 **4-NITROBIPHENYL / 4-NITRODIPHENYL**

|  |  |
| --- | --- |
| 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) | 4-Nitrobiphenyl:Maximum amount allowed without PI approval: |
| Hazardous Material Storage Location: | Store in a dry, cool and well-ventilated place.Store away from strong oxidizers.Designated Storage Area:  |
| Experimental Procedure and Lab Technics Used:  | Click here to enter text. |
| Hazard Identification: (i.e., physical/health hazards) | **CAS # 92-93-3****GHS Classification: Carcinogen. Toxic to aquatic life with long lasting effects.*** Confirmed carcinogen.
* Poison by intraperitoneal rout.
* Moderately toxic by ingestion.
* Mutation data reported.
* When heated to decomposition it emits toxic fumes of nitrogen oxides.

OSHA: CarcinogenNIOSH REL: 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. Store waste away from strong oxidizers. 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.Sweep up without creating dust and arrange disposal.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 as a precaution.**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 4-nirtobiphenyl, 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:

|  |  |  |
| --- | --- | --- |
| 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. |  |

**4-NITROBIPHENYL / 4-NITRODIPHENYL**

**Carcinogen. Toxic to aquatic life with long lasting effects**.



**FIRST AID**

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

**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**