**Standard Operating Procedure for Laboratories**

**N-NITROSODIMETHYLAMINE**

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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) | N-Nirtosodimethylamine:  Maximum amount allowed without PI approval: |
| Hazardous Material Storage Location: | Store in dark container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed. Take measures to prevent the buildup of electrostatic charge, keep away from ignition sources. Store away from strong oxidizers. Recommended storage temperature is 2-8 °C.  Designated Storage Area: |
| Experimental Procedure and Lab Techniques to be Used: | Click here to enter text. |
| Hazard Identification: (i.e., physical/health hazards) | **CAS # 62-75-9**  **GHS Classification: Flammable liquid. Acutely toxic by ingestion and inhalation. Carcinogen. Toxic to aquatic life with long lasting effects.**   * A transplacental carcinogen. * Poison by inhalation or ingestion. * Ingestion will cause ulceration or bleeding from small intestine, nausea or vomiting. * Experimental reproductive effects. Human mutation data reported. Has caused fatal liver disease. * When heated to decomposition it emits toxic fumes of 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. Ground all electrical equipment.  Eyewash and safety showers must be readily available. |
| Protective Equipment: | Use chemical resistant gloves, nitrile gloves are sufficient. Wear safety glasses with side shields, face shield may be recommended. Wear flame resistant 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 one-quart 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: | Wear respiratory protection. Evacuate personnel to safe area. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations in low area. Collect spill with an electrically protected vacuum cleaner or by wet brushing to avoid dust formation. 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 n-nitrosodimethylamine, 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. |  |
| Click here to enter text. | Click here to enter text. |  |
| Click here to enter text. | Click here to enter text. |  |

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**Flammable liquid. Acutely toxic by ingestion and inhalation. Carcinogen. Toxic to aquatic life with long lasting effects.**

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**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**