

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 545.00

Revision Date: April 3, 2001

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### Section 1 — Chemical Product and Company Identification

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#### Nicotine

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

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### Section 2 — Composition, Information on Ingredients

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Nicotine

Synonym: black leaf

CAS#: 54-11-5

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### Section 3 — Hazards Identification

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Thick, water-white oil. Turns brown on exposure to air or light. Strong odor; like old, smoked cigarettes.

Highly toxic; may be fatal if inhaled, swallowed, or absorbed through skin. Alleged teratogen.

Combustible liquid.

#### FLINN AT-A-GLANCE

Health-3

Flammability-1

Reactivity-0

Exposure-3

Storage-3

0 is low hazard, 3 is high hazard

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### Section 4 — First Aid Measures

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Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

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### Section 5 — Fire Fighting Measures

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Class IIIB Combustible liquid.

Flash Point: 203 F Upper: 4.0% Lower: 0.7% Autoignition Temperature: 471 F

When heated to decomposition, emits toxic fumes of NO<sub>x</sub>, CO and other highly toxic fumes.

**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

H-4

F-1

R-0

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### Section 6 — Accidental Release Measures

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Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

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### Section 7 — Handling and Storage

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Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides.

Store in a cool dry place. Deliquescent, store in Flinn Chem-Saf Bag. Store in a poisons cabinet. Use and dispense in a hood.

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### Section 8 — Exposure Controls, Personal Protection

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Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA 0.5 mg/m<sup>3</sup> (OSHA)

### Section 9 — Physical and Chemical Properties

Thick, water-white oil. Turns brown on exposure to air or light.  
Strong odor; like old, smoked cigarettes.  
Solubility: Soluble in water and many organic solvents.  
Formula: C<sub>10</sub>H<sub>14</sub>N<sub>2</sub>  
Formula Weight: 162.26

Specific Gravity: 1.010  
Boiling Point: 482 F (dec.)

### Section 10 — Stability and Reactivity

Avoid contact with strong oxidizing agents, and strong acids.  
Shelf life: Poor; deliquescent.

### Section 11 — Toxicological Information

Acute effects: Cyanosis, irritant, nausea, dizziness, headache, stomach pains, vomiting, diarrhea.  
Chronic effects: Convulsions, possible teratogen  
Target organs: Nervous system, skeletal muscle, GI system.

ORL-RAT LD50: 50 mg/kg  
IHL-RAT LC50: N.A.  
SKN-RBT LD50: 140 mg/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

### Section 12 — Ecological Information

Data not yet available.

### Section 13 — Disposal Considerations

Please consult with state and local regulations.  
Flinn Suggested Disposal Method #5 is one option.

### Section 14 — Transport Information

Shipping Name: Nicotine  
Hazard Class: 6.1, Poison  
UN Number: UN1654

N/A = Not applicable

### Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (200-193-3), RCRA code P075.

### Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

**FLINN SCIENTIFIC INC.**

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*Questions on Chemical Disposal  
or Storage?--Call Flinn*

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