FLINN SCIENTIFIC, INC. Material Safety Data Sheet (MSDS)

MSDS #: 545.00

Revision Date: August 18, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Nicotine

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

CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Nicotine

Synonym: black leaf CAS#: 54-11-5

SECTION 3 — HAZARDS IDENTIFICATION

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

SECTION 4 — FIRST AID MEASURES

Call a physician and 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 or External: Immediately flush with fresh water for at least 15 minutes.

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

SECTION 5 — FIRE FIGHTING MEASURES

| Class IIIB combustible liquid. | NFPA Code |
|--|-----------|
| Flash point: 95 °C Flammable limits: Lower: 0.7% Upper: 4.0% Autoignition Temperature: 244 °C | H-4 |
| When heated to decomposition, emits toxic fumes of NO _x , CO, and other highly toxic fumes. | F-1 |
| Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and | R-0 |
| SCBA with full facepiece operated in positive pressure mode. | |

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Sweep up the spill, place in a 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.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines, and amides. Store in a cool, dry place. Deliquescent; store in a Flinn Chem-Saf Bag. Store in a poisons cabinet. Use and dispense in a hood.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and a 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: PEL 0.5 mg/m³ (OSHA)

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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: $C_{10}H_{14}N_2$ Formula weight: 162.26 Boiling point: 250 °C Melting point: -79 °C Specific gravity: 1.010 Not for human use.

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 review all federal, state and local regulations that may apply, before proceeding. 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

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.