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

MSDS #: 310.00

Revision Date: July 28, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Diphenylamine

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

Diphenylamine
Synonyms: Anilinobenzene, Phenylaniline

CAS#: 122-39-4

SECTION 3 — HAZARDS IDENTIFICATION

White to tan flakes. Strong floral odor.
Moderately toxic by ingestion and inhalation. Irritant. Avoid contact with body tissues.
Combustible solid.

FLINN AT-A-GLANCE

Health-2
Flammability-1
Reactivity-1
Exposure-2
Storage-0

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. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Combustible solid.
Flash point: 153 °C Autoignition Temperature: 635 °C
When heated to decomposition, emits fumes of nitrogen oxides.
Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

H-3
F-1
R-0

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.
Light sensitive. Store in a cool, dry place. 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: TWA 10 mg/m^3 ppm (NIOSH-REL)

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White to tan flakes. Strong floral odor.
Solubility: Soluble in carbon disulfide, alcohol and ether. Insoluble in water
Formula: $(C_6H_5)_2NH$
Formula weight: 169.24

Boiling point: 302 ^oC
Melting point: 53 ^oC
Specific gravity: 1.158

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizing agents and strong acids.
Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, irritant.
Chronic effects: Possible mutagen, possible teratogen.
Target organs: Eyes, skin, blood, bladder.

ORL-RAT LD_{50}: 1120 mg/kg
IHL-RAT LC_{50}: N.A.
SKN-RBT LD_{50}: N.A.

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: Not regulated
Hazard class: N/A
UN number: N/A
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (204-539-4).

SECTION 16 — OTHER INFORMATION

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

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