

Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Diphenylamine

Signal Word
DANGER

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

Chemtrec Emergency Phone Number: (800) 424-9717

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302).



Hazard class: Acute toxicity, dermal and inhalation (Category 3). Toxic if inhaled or in contact with skin (H311). Avoid breathing dust or fume (P261). Do not eat, drink or smoke when using this product (P270).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Diphenylamine	122-39-4	(C ₆ H ₅) ₂ NH	169.2	
Synonyms: Anilinobenzene; Phenylaniline				

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

If on skin: Wash with plenty of water (P302+P352). Remove immediately all contaminated clothing (P361). Wash contaminated clothing before reuse (P363).

If swallowed: Rinse mouth (P330).

SECTION 5 — FIRE FIGHTING MEASURES

Combustible solid.

NFPA Code

Flash point: 153 °C Autoignition Temperature: 634 °C

H-2

When heated to decomposition, may emit toxic fumes.

F-1

In case of fire: Use a tri-class dry chemical fire extinguisher.

R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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 away from light. Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

Exposure guidelines: TLV 10 mg/m³ (ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White to tan flakes. Strong floral odor.

Boiling point: 302 °C

Soluble: Most organic solvents. Insoluble in water.

Melting point: 53 °C

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: Mucous membrane irritation, cyanosis, respiratory depression, somnolence, methemoglobinemia.

ORL-RAT LD₅₀: 1120 mg/kg

IHL-RAT LC₅₀: N.A.

SKN-RBT LD₅₀: N.A.

Chronic effects: Possible mutagen, possible teratogen.

Target organs: Eyes, skin, blood, bladder, reproductive organs.

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

SECTION 15 — REGULATORY INFORMATION

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

SECTION 16 — OTHER INFORMATION

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PRODUCT(S).

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

N/A = Not applicable

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

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