

Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Aniline

Signal Word
DANGER

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
Chemtrec Emergency Phone Number: (800) 424-9428

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral, dermal, and inhalation (Category 3). Toxic if swallowed, inhaled or in contact with skin (H301+H311+H331). Do not eat, drink or smoke when using this product (P270). Avoid breathing mist, vapors or spray (P261).



Hazard class: Serious eye damage or irritation (Category 1). Causes serious eye damage (H318).



Hazard class: Germ cell mutagenicity (Category 2). Suspected of causing genetic defects (H341). Obtain special instructions before use (P201).



Hazard class: Carcinogenicity (Category 2). Suspected of causing cancer (H351).

Hazard class: Specific target organ toxicity, repeated exposure (Category 1). Causes damage to organs (H372).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Aniline	62-53-3	C ₆ H ₅ NH ₂	93.13	
Synonyms: Aminobenzene; Aniline oil				

SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310). **If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If on skin:** Wash with plenty of water (P302+P352). Call a POISON CENTER or physician if you feel unwell (P312). Remove immediately all contaminated clothing (P361). Wash contaminated clothing before reuse (P363). **If swallowed:** Rinse mouth. Immediately call a POISON CENTER or physician (P301+P310+P330).

SECTION 5 — FIRE FIGHTING MEASURES

Class IIIA combustible liquid.

NFPA Code

Flash point: 70 °C Flammable limits: Lower: 1.3% Upper: 11% Autoignition Temperature: 615 °C

When heated to decomposition, may emit toxic fumes.
In case of fire: Use a tri-class dry chemical fire extinguisher.

H-2
F-2
R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Wipe 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 Flinn Chem-Saf™ bag and then inside a Flinn Saf-Stor™ can.
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: PEL: 5 ppm (OSHA) TLV: 7.6 mg/m³ (ACGIH) Readily absorbed through the skin.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless to brown, oily liquid. Slight benzene-like odor.	Boiling point: 184 °C
Soluble: Water, alcohol, ether, and benzene	Melting point: -6 °C
	Specific gravity: 1.02

SECTION 10 — STABILITY AND REACTIVITY

Avoid heat and contact with strong oxidizers and acids. Avoid contact with hydrogen peroxide, iron and iron salts, aluminum, zinc, and, most particularly, nitric acid. Heating to decomposition emits toxic NO_x fumes.

Shelf life: Poor. Sensitive to light and air. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Absorbed through skin and respiratory tract.	ORL-RAT LD ₅₀ : 250 mg/kg
Skin, eye, and respiratory tract irritation. Dizziness. Headache.	IHL-RAT LC ₅₀ : 250 ppm/4H
Methemoglobinemia.	SKN-RBT LD ₅₀ : 820 uL/kg

Chronic effects: Possible mutagen. Confirmed animal carcinogen.
Target organs: Blood, liver, nervous system.

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: Aniline. Hazard class: 6.1, Poison. UN number: UN1547.

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (200-539-3), RCRA code U012.

SECTION 16 — OTHER INFORMATION

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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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