

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 73.00

Revision Date: December 13, 2013

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Aniline

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

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **DANGER**

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. 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.

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.**NFPA CODE**

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 in a well-ventilated area (P271).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling (P264). Use only in a hood or in a 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. Darkens on exposure to light and air. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Absorbed through skin and respiratory tract. Skin, eye, and respiratory tract irritation. Dizziness. Headache.

ORL-RAT LD₅₀: 250 mg/kg

Methemoglobinemia.

IHL-RAT LC₅₀: 250 ppm/4H

Chronic effects: Possible mutagen. Confirmed animal carcinogen.

SKN-RBT LD₅₀: 820 uL/kg

Target organs: Blood, liver, nervous system.

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

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

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

SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) 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. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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