

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 73.00

Revision Date: July 8, 2011

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

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Aniline

Synonyms: aminobenzene, aniline oil

CAS#: 62-53-3

SECTION 3 — HAZARDS IDENTIFICATION

Colorless to brown, oily liquid. Slight benzene-like odor.

May be fatal if swallowed, inhaled, or absorbed through skin. Severe eye irritant and mild sensitizer.

Serious health hazard.

Combustible liquid, moderately flammable.

FLINN AT-A-GLANCE

Health-3

Flammability-2

Reactivity-2

Exposure-3

Storage-2

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. Induce vomiting. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Class III A combustible liquid.

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

Moderately flammable when exposed to heat or flame. Heating to decomposition emits toxic NO_x fumes.

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-2

R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Remove all ignition sources. 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.

Use and dispense in a hood.

Store in a Flinn Chem-Saf bag and then inside a Flinn Saf-Stor can.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and 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 5 ppm (OSHA)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless to brown, oily liquid with a slight benzene-like odor.

Solubility: Water soluble (3.6%).

Formula: C₆H₅NH₂

Formula weight: 93.14

Boiling point: 184 °C

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.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Highly toxic, irritant.

Chronic effects: Possible mutagen. Confirmed animal carcinogen.

Target organs: Blood, nervous system, bladder.

ORL-RAT LD₅₀: 250 mg/kg

IHL-RAT LC₅₀: 175 ppm/7H

SKN-RBT LD₅₀: 1400 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: 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

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