

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 73.00

Revision Date: August 14, 2001

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### Section 1 — Chemical Product and Company Identification

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#### Aniline

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

CHEMTREC Emergency Phone Number: (800) 424-9300

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### Section 2 — Composition, Information on Ingredients

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Aniline

Synonyms: aminobenzene, aniline oil

CAS#: 62-53-3

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### Section 3 — Hazards Identification

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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. Confirmed animal carcinogen with unknown relevance to humans.

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

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### Section 4 — First Aid Measures

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Call a physician, 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: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. After vomiting, give mixture of 2 Tbs. of activated charcoal mixed with one cup of water. Call a physician or poison control at once.

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### Section 5 — Fire Fighting Measures

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Class III A Combustible liquid.

Moderately flammable when exposed to heat or flame. Heating to decomposition emits toxic NO<sub>x</sub> fumes.

Flash Point: 158 F UEL: 11% LEL: 1.3% Autoignition Temperature: 1139 F

**Fire Fighting Instructions:** Use 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

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### Section 6 — Accidental Release Measures

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Restrict unprotected personnel from area. Remove all ignition sources. Sweep up, place in 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.

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### Section 7 — Handling and Storage

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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.

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### Section 8 — Exposure Controls, Personal Protection

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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: TWA 5 ppm, (OSHA)

### Section 9 — Physical and Chemical Properties

Colorless to brown, oily liquid. Slight benzene-like color.  
Solubility: Water soluble (3.6%).  
Formula: C<sub>6</sub>H<sub>5</sub>NH<sub>2</sub>  
Formula Weight: 93.14

Specific Gravity: 1.02  
Melting Point: -6 C  
Boiling Point: 184 C

### 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 most particularly, nitric acid. Heating to decomposition emits toxic NO<sub>x</sub> fumes.  
Shelf life: Stores poorly; 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 consult with state and local regulations.  
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

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) 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. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

**FLINN SCIENTIFIC INC.**

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flinn@flinnsci.com www.flinnsci.com  
P.O. Box 219 Batavia IL 60510  
(800) 452-1261 Fax (866) 452-1436