

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 108.00

Revision Date: March 7, 2001

Section 1 — Chemical Product and Company Identification

Benzoyl Chloride

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

Benzoyl Chloride

Synonym: benzoic acid chloride

CAS#: 98-88-4

Section 3 — Hazards Identification

Colorless liquid, pungent odor.

Vapor harmful. Lachymator. Moderately toxic by ingestion, inhalation and absorption. Corrosive; causes severe burns. Combustible liquid. Reacts violently with water.

FLINN AT-A-GLANCE

Health-2
Flammability-1
Reactivity-3
Exposure-3
Storage-1

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

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: Give large quantities of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Class IIIA combustible liquid.

When heated to decomposition, emits very acrid fumes of CO and HCl. Reacts violently with water.

Flash Point: 162 F Upper: 4.9% Lower: 1.2% Autoignition Temperature: 1056 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-1
No Water

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Remove all ignition sources and ventilate area. Contain spill with sand and absorbent material, neutralize with sodium bicarbonate or calcium hydroxide and deposit in sealed bag or container. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Organic #1. Store with acids, anhydrides and peracids.

Moisture sensitive material, Store in Flinn Chem-Stor can. Store in a cool dry place. Use and dispense in a hood.

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 exhaust ventilation to keep airborne concentrations low.

Section 9 — Physical and Chemical Properties

Colorless liquid, pungent odor.
Solubility: Decomposes in water.
Formula: C₆H₅COCl
Formula Weight: 140.57

Specific Gravity: 1.21
Melting Point: -1 C
Boiling Point: 197 C

Section 10 — Stability and Reactivity

Avoid contact with strong oxidizers, bases, alcohols and water.
Reacts violently with water.
Shelf life: Poor.

Section 11 — Toxicological Information

Acute effects: Toxic, corrosive, lachrymator
Chronic effects: N.A.
Target organs: N.A.

ORL-RAT LD50: 1900 mg/kg
IHL-RAT LC50: 1870 mg/m³/2H
SKN-RBT LD50: N.A.

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 #1a is one option.

Section 14 — Transport Information

Shipping Name: Benzoyl chloride
Hazard Class: 8, Corrosive
UN Number: UN1736

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (202-710-8), RCRA code D002.

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.

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