FLINN AT-A-GLANCE

0 is low hazard, 3 is high hazard

Health-2

Flammability-2

Reactivity-3

Exposure-3 Storage-1

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

#### 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: Do NOT induce vomiting. Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

# SECTION 5 — FIRE FIGHTING MEASURESNFPA CodeClass IIIA combustible liquid.Flash point: 72 °C Flammable limits: Lower: 1.2% Upper: 4.9% Autoignition Temperature: 569 °CH-3When heated to decomposition, emits very acrid fumes of CO and HCl. Reacts violently with water.F-2Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE andR-1SCBA with full facepiece operated in positive pressure mode.No Water

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Remove all ignition sources and ventilate area. Contain the spill with sand or other inert 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-Saf 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. Exposure guidelines: PEL 1 ppm (OSHA)

# **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Colorless liquid with a pungent odor. Solubility: Decomposes in water. Formula: C<sub>6</sub>H<sub>5</sub>COCl Formula weight: 140.57

# 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, and lachrymator. Chronic effects: N.A. Target organs: N.A.

ORL-RAT LD<sub>50</sub>: 1900 mg/kg IHL-RAT LC<sub>50</sub>: 1870 mg/m<sup>3</sup>/2H SKN-RBT LD<sub>50</sub>: 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 review all federal, state and local regulations that may apply, before proceeding. 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**

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. 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.

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Boiling point: 197 °C Melting point: -1 °C Refractive index: 1.5537 Specific gravity: 1.21