FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

Section 1 — Chemical Product and Company Identification

Adipoyl 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

Adipyl Chloride Synonym: Adipoyl Chloride CAS#: 111-50-2

Section 3 — Hazards Identification

Colorless to yellow liquid. Offensive stench. Corrosive to body tissues. Lachrymator. Avoid all body tissue contact. Combustible liquid, frequently in hexane solution.

FLINN AT-A-GLANCE Health-2 Flammability-0 Reactivity-1 Exposure-2 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

Combustible liquid. Flash point: > 230 F.	NFP
When heated to decomposition, emits toxic HCl and phosgene gas.	H-2
Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE	F-2
and SCBA with full facepiece operated in positive pressure mode.	R-0

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. Store in a Flinn Chem-Saf bag. If a hexane solution, store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor can. 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 ventilation to keep airborne concentrations low. 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).

PA CODE

MSDS #: 20.00 Revision Date: March 14, 2001

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Section 9 — Physical and Chemical Properties

Colorless to yellow liquid. Offensive stench. Solubility: Miscible in hexane. Formula: ClOC(CH2)4COCl Formula Weight: 183.03

Section 10 — Stability and Reactivity

Avoid contact with water, alcohols, oxidizers, and strong bases. Shelf Life: Poor.

Section 11 — Toxicological Information

Acute effects: Corrosive, lachrymator Chronic effects: N.A. Target organs: 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: Not regulated Hazard Class: N/A UN Number: N/A

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (203-876-4), RCRA code D002, D003.

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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ORL-RAT LD50: N.A. IHL-RAT LC50: N.A. SKN-RBT LD50: N.A.

Specific Gravity: 1.257 Boiling Point: 105-107 C

Adipoyl Chloride