FLINN SCIENTIFIC, INC. Material Safety Data Sheet (MSDS)

MSDS #: 20.00

Revision Date: April 21, 2011

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

SECTION 5 — FIRE FIGHTING MEASURES

Combustible liquid.	NFPA CODE
Flash point: > 110 °C	H-2
When heated to decomposition, may emit chlorine.	F-2
Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and	R-0
SCBA with full facepiece operated in positive pressure mode.	

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 a 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).

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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 Boiling point: 105-107 °C Specific gravity: 1.257

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 ORL-RAT LD_{50} : N.A. Chronic effects: N.A. IHL-RAT LC_{50} : N.A. Target organs: N.A. SKN-RBT LD_{50} : 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: 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

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