

MATERIAL SAFETY DATA SHEET

SEBACOYL CHLORIDE
CAROLINA BIOLOGICAL

Revised: 08/24/07
Replaces: 07/16/04
Printed: 11/27/07

1. PRODUCT DESCRIPTION

Product Name: Sebacoyl Chloride
Product Code(s): 88-7300
Size: 100 mL
Chemical Name: Sebacoyl Chloride
CAS Number: See section 2
Formula: $\text{ClCO}(\text{CH}_2)_8\text{COCl}$
Synonyms: Sebacoyl Chloride
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Hazardous Components: Free Acid(HCL)(CAS#7647-01-0) 1-3%
Sebacic Acid(CAS#111-20-6) 1-3%
Sebacoyl Chloride CAS#111-19-3) 93-95%

TLV and PEL units:

Hydrochloric Acid: ACGIH-TLV 2 ppm Ceiling
OSHA-PEL 5 ppm Ceiling

3. HAZARD IDENTIFICATION

Emergency Overview: DANGER! CORROSIVE! WATER REACTIVE. LACHRYMATOR
DANGER! Causes burns. Material is extremely destructive to tissue of
the mucous membranes and upper respiratory tract, eyes and skin.

Potential Health Effects:

Eyes: May cause severe irritation or burns.

Skin: May cause severe irritation or burns.

Ingestion: May cause severe irritation to gastrointestinal tract.

Inhalation: May cause severe irritation and damage to mucous membranes
and respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering
eyelids occasionally. Get medical attention if irritation persists.

Skin - Thoroughly wash exposed area for at least 15 minutes. Remove
contaminated clothing. Launder contaminated clothing before reuse. Get
medical attention.

Ingestion - Do not induce vomiting. If swallowed, if conscious, give
plenty of water immediately and get medical attention at once. Never
give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is
difficult; give artificial respiration if breathing has stopped. Keep
person warm and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): >235 C (>112 C)

NFPA Rating: Health: 3
Fire: 1
Reactivity: 2

Extinguisher Media:

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

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Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Contamination, temperature-can decompose with force if confined during exposure to fire. Corrosive fumes.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Eliminate all sources of ignition.

Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Store in tightly closed container. Keep away from heat, sparks, or flame. Open container cautiously. Do not store near combustibles. Do not get in eyes, on skin, or on clothing. Empty containers may contain hazardous residues. Do not reuse container.

Other Precautions: Do not take internally. Wash thoroughly after handling. Do not allow contact with water or high humidity.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust:	Yes
Mechanical(General):	Yes
Special:	No
Other:	No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight:	239.15
Melting Point:	- 2.5 C
Boiling Point:	220 C (428F)
Vapor Pressure:	N/A
Specific Gravity(H ₂ O=1):	1.1212
Percent Volatile by Volume:	100%
Evaporation Rate(H ₂ O=1):	Less than 1
Solubility in Water:	Decomposes in water; soluble in hydrocarbons and ethers
Appearance and Odor:	Clear to orange liquid, pungent odor.

10. REACTIVITY DATA

Stability:

Conditions to Avoid: Heat, flames, sparks, ignition sources, contamination.

Incompatibility(Materials to Avoid): Water, alcohols, phenols, humid

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atmosphere and amines.

Hazardous Decomposition Products: Primarily Hydrochloric acid.

Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data:

Hydrochloric Acid: Oral rat LD50: 700 mg/kg; ihl-rat LC50: 3124 ppm/1H

Sebacic Acid: Oral rat LD50: 14375 mg/kg

Sebacoyl Chloride: Oral rat LD50: 400 mg/kg

Effects of Overexposure:

Acute: See section 3

Chronic: Hydrochloric Acid: Mutation data cited. Reproductive data cited. Material is not listed by (NTP, IARC, OSHA) as causing cancer.

Conditions Aggravated by Overexposure: Pre-existing conditions of the eyes, nose, throat, skin, respiratory tract.

Target Organs: Eyes, skin, lungs, respiratory tract

Primary Route(s) of Entry: Inhalation, ingestion, eyes, skin.

12. ECOLOGICAL DATA

EPA Waste Numbers: D002

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Description: Corrosive liquids, n.o.s. (Sebacoyl Chloride), 8, UN1760, II

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals		CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
		Name List	Chemical Category		
Hydrochloric Acid	500	Yes	No	5000	No
Sebacic Acid	No	No	No	No	No
Sebacoyl Chloride	No	No	No	No	No

16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists

CAS Number..Chemical Abstracts Service Number

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CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
mppcf.....million particles per cubic foot
N/A.....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act