



# SEBACOYL CHLORIDE

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**Carolina Biological Supply Company**

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**CAROLINA**  
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## Section 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:** C<sub>10</sub>H<sub>16</sub>Cl<sub>2</sub>O<sub>2</sub>

**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** 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2 - Composition / Information on Ingredients

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

**TLV units:** (Hydrochloric Acid) ACGIH-TLV 2 ppm Ceiling

**PEL units:** (Hydrochloric Acid) OSHA-PEL 5 ppm ceiling

## Section 3 - Hazard Identification

**Emergency Overview:** Causes burns. Water-reactive Material, Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

**Potential Health Effects:**

**Eyes:** Causes severe burns and eye damage upon direct contact. Vapor is irritating.

**Skin:** May cause severe irritation or chemical burns.

**Ingestion:** May severely irritate or damage digestive tract.

**Inhalation:** May severely irritate or damage mucous membranes and respiratory tract.

## Section 4 - First Aid Measures

**Emergency and First Aid Procedures:**

**Eyes** - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin** - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of ... (Water, unless specified as a water reactive material).

**Ingestion** - If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

**Inhalation** - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## Section 5 - Firefighting Procedures

**Flash Point (Method Used):** (Sebacoyl Chloride) Above 112 °C

**NFPA Rating:**

**Health:** 3

**Fire:** 1

**Reactivity:** 2

**Extinguisher Media:** Use media suitable to extinguish surrounding fire.

**Flammable Limits in Air % by Volume:** N/A

**Autoignition Temperature:** N/A

**Special Firefighting Procedures:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products.

## Section 6 - Spill or Leak Procedures

**Steps to Take 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.

## Section 7 - Special Precautions

**Precautions to Take in Handling or Storing:** Handle and open container with care.

Keep container tightly closed in a cool, well-ventilated place.

Retained residue may make empty containers hazardous.

Avoid contact with skin and eyes.

## Section 8 - Protection Information

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. 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:** Natural rubber, Neoprene, PVC or equivalent.

**Eye Protection:** Splash proof chemical safety goggles should be worn.

**Other Protective Clothing or Equipment:** Lab coat, apron, eye wash, safety shower.

## Section 9 - Physical Data

**Molecular Weight:** 239.15

**Boiling Point:** 220 °C

**Vapor Density(Air=1):** N/A

**Percent Volatile by Volume:** 100%

**Solubility in Water:** Soluble

**Melting Point:** -2.5 °C

**Vapor Pressure:** N/A

**Specific Gravity (H<sub>2</sub>O=1):** 1.1212

**Evaporation Rate (BuAc=1):** <1

**Appearance and Odor:** Clear to orange liquid with pungent odor.

## Section 10 - Reactivity Data

**Stability:** Stable

**Conditions to Avoid:** Heat and sources of ignition.

Keep away from sources of ignition - No smoking.

**Incompatibility (Materials to Avoid):** Phenols, Amines, Alcohols, Water,  
**Hazardous Decomposition Products:** HCl,  
**Hazardous Polymerization:** Will not occur

## Section 11 - Toxicity Data

**Toxicity Data:** (Sebacoyl Chloride) orl-rat LD50 400 mg/kg  
(Sebacic Acid) orl-rat LD50 14375 mg/kg  
(Hydrochloric Acid) orl-rat LD50 700 mg/kg; ihl-rat LC50 3124 ppm/1H

**Effects of Overexposure:**

**Acute:** See section 3

**Chronic:** Reproductive data cited. Mutation data cited. Not listed as a carcinogen by IARC, NTP or OSHA.

**Conditions Aggravated by Overexposure:** Eye disorders, Skin disorders, Respiratory disorders,

**Target Organs:** Respiratory system, Skin, Eyes,

**Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

## Section 12 - Ecological Data

**EPA Waste Numbers:** D002

## Section 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.

## Section 14 - Transport Information

**DOT Proper Shipping Name:** UN1760, Corrosive liquids, n.o.s. (Sebacoyl Chloride), 8, II

## Section 15 - Regulatory Information

**EPA TSCA Status:** On TSCA Inventory

**Hazard Category for SARA Section 311/312 Reporting:** Acute

**Name List:**

Sebacoyl Chloride - No

Sebacic Acid - No

Hydrochloric Acid - Yes

**Chemical Category:**

Sebacoyl Chloride - No

Sebacic Acid - No

Hydrochloric Acid - No

**CERCLA Section 103 RQ(lb.):** Sebacoyl Chloride - No

Sebacic Acid - No

Hydrochloric Acid - 5000 lbs

**RCRA Section 261.33:** Sebacoyl Chloride - No

Sebacic Acid - No

Hydrochloric Acid - No

## Section 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 Services Abstract Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency of Research on Cancer
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