

Material Safety Data Sheet



Sebacoyl Chloride

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

CAROLINA
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Section 1 - Product Description

Product Name: Sebacoyl Chloride
Product Code(s): 88-7300, 84-1112, C70293
Size: 100 mL
Chemical Name: Sebacoyl Chloride
CAS Number: See Section 3
Formula: C₁₀H₁₆Cl₂O₂
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 - Hazard Identification

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

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

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

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.

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: Avoid contact with skin and eyes.

Retained residue may make empty containers hazardous.

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

Handle and open container with care.

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 (H₂O=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: Keep away from sources of ignition - No smoking.

Heat and sources of ignition.

Incompatibility (Materials to Avoid): Water, Alcohols, Amines, Phenols,

Hazardous Decomposition Products: HCl,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

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

Effects of Overexposure:

Acute: See Section 2

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

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

Target Organs: Eyes, Skin, Respiratory system,

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:

Hydrochloric Acid - Yes

Sebacic Acid - No

Sebacoyl Chloride - No

Chemical Category:

Hydrochloric Acid - No

Sebacic Acid - No

Sebacoyl Chloride - No

CERCLA Section 103 RQ(lb.): Hydrochloric Acid - 5000 lbs

Sebacic Acid - No

Sebacoyl Chloride - No

RCRA Section 261.33: Hydrochloric Acid - No

Sebacic Acid - No

Sebacoyl Chloride - 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