SECTION-1: Identification of the substance / mixture and the company / undertaking

Catalogue Number	CS-T-40686
Product Name	Propionyl Chloride
CAS No.	79-03-8
Category	Fine Chemicals
Synonyms	propionyl chloride
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	Not available

SECTION 2: Hazards identification

Disclaimer: This is sample MSDS. Please email **sales@clearsynth.com** for more details.

2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Acute toxicity (Category 4)

2.2 Label Elements

Signal Word: Warning



Hazard Statement(s)

Code	Statement
H225	Not available
H314	Not available
H302	Harmful if swallowed.
H318	Causes serious eye damage.

H331	Not available

Precautionary Statement(s)

Code	Statement
P210	Not available
P233	Not available
P240	Not available
P241	Not available
P242	Not available
P243	Not available
P260	Not available
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	Not available
P302+P361+P354	Not available
P303+P361+P353	Not available
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338	Not available
P316	Not available
P321	Specific treatment (see … on this label).
P363	Not available
P370+P378	Not available
P403+P235	Not available
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulatio
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264+P265	Not available
P270	Not available
P271	Use only outdoors or in a well-ventilated area.
P301+P317	Not available

P317	Not available
P330	Not available
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Propionyl Chloride
CAS Number : 79-03-8
Molecular Formula : C3H5ClO
Molecular Weight : 92.52
Parent Chemical : -
Synonyms : propionyl chloride
Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures
- General advice: Remove contaminated clothing and shoes. Seek medical attention if symptoms occur or persist. Show this SDS to medical personnel.
- Inhalation: Move person to fresh air. Keep at rest. If breathing is difficult, seek medical attention.
- Skin contact: Immediately wash with plenty of water. Seek medical attention for irritation, burns, or persistent symptoms.
- Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
- Ingestion: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed
- Corrosive effects possible; may cause severe irritation/burns to eyes, skin, and respiratory tract.
- Additional information: Not available.

4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically. Specific antidote: Not available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
- Suitable extinguishing media: Use extinguishing agent appropriate for surrounding fire (e.g., dry chemical, carbon dioxide, alcohol-resistant foam).
- Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

- May release hazardous vapors/fumes under fire conditions.
- Hazardous combustion/decomposition products: Not available.

5.3 Advice for firefighters
- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Cool containers with water spray from a safe distance.
- Prevent fire-fighting water from entering drains or waterways.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Evacuate unnecessary personnel. Ensure adequate ventilation.
- Avoid breathing vapors/mists. Avoid contact with skin and eyes.
- Wear appropriate PPE (chemical-resistant gloves, protective clothing, eye/face protection; respiratory protection as needed).

6.2 Environmental precautions
- Prevent entry into sewers, waterways, or soil.

6.3 Methods and material for containment and cleaning up
- Contain spill. Absorb with inert material (e.g., dry sand/earth/vermiculite).
- Collect in suitable, labeled containers for disposal.
- Do not allow contact with incompatible materials. Additional information: Not available.

6.4 Reference to other sections
- See Section 8 for exposure controls/personal protection and Section 13 for disposal considerations.

SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling
- Use only with adequate ventilation (preferably in a fume hood).
- Avoid breathing vapors/mists. Avoid contact with skin, eyes, and clothing.
- Keep container tightly closed. Do not eat, drink, or smoke when using this product.
- Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities
- Store in a cool, dry, well-ventilated place.
- Keep container tightly closed and properly labeled.
- Protect from moisture. Store away from incompatible materials.
- Incompatible materials: Not available.

7.3 Specific end use(s)
- Fine chemical / laboratory use. Additional information: Not available.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
- Occupational exposure limits: Not available.
- Biological limit values: Not available.

8.2 Exposure controls
- Engineering controls: Use local exhaust ventilation or general ventilation to minimize exposure. Use in a chemical fume hood where possible.
- Personal protective equipment (PPE):
- Eye/face protection: Safety goggles and/or face shield.
- Skin protection: Chemical-resistant gloves; protective clothing.
- Respiratory protection: Use appropriate respiratory protection if ventilation is inadequate or exposure is possible. Specific recommendations: Not available.
- Hygiene measures: Remove contaminated clothing and wash before reuse. Wash hands after handling.
- Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available

Property	Value
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

SECTION 10: Stability and reactivity

10.1 Reactivity
- Reactivity: Not available.

10.2 Chemical stability
- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
- Hazardous reactions: Not available.

10.4 Conditions to avoid
- Moisture/humidity, heat, and incompatible materials. Additional information: Not available.

10.5 Incompatible materials
- Not available.

10.6 Hazardous decomposition products
- Not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
- Acute toxicity: LC50 Rat inhalation 200/mg cu m /4 hrs/ LD50 Rat oral 823 mg/kg
- Skin corrosion/irritation: A corrosive irritant to skin, eyes, and mucous membranes. IDENTIFICATION AND USE: Propionyl chloride is used in chemical synthesis. HUMAN STUDIES: There are no data available. ANIMAL STUDIES: It was corrosive in an eye irritation test in rabbits. In dermal irritation test in rabbits severe necrosis was observed after 1, 5 and 15 min of exposure. Propionyl chloride was negative in mutagenicity test in S. typhimurium strains TA 1535, TA 1537, TA 98 and TA 100 and E. coli WP2 uvr A with and without metabolic activation.
- Serious eye damage/eye irritation: IDENTIFICATION AND USE: Propionyl chloride is used in chemical synthesis. HUMAN STUDIES: There are no data available. ANIMAL STUDIES: It was corrosive in an eye irritation test in rabbits. In dermal irritation test in rabbits severe necrosis was observed after 1, 5 and 15 min of exposure. Propionyl chloride was negative in mutagenicity test in S. typhimurium strains TA 1535, TA 1537, TA 98 and TA 100 and E. coli WP2 uvr A with and without metabolic activation. /LABORATORY ANIMALS: Acute Exposure/ /Eye irritation test in rabbits/ Corrosive.

- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: IDENTIFICATION AND USE: Propionyl chloride is used in chemical synthesis. HUMAN STUDIES: There are no data available. ANIMAL STUDIES: It was corrosive in an eye irritation test in rabbits. In dermal irritation test in rabbits severe necrosis was observed after 1, 5 and 15 min of exposure. Propionyl chloride was negative in mutagenicity test in S. typhimurium strains TA 1535, TA 1537, TA 98 and TA 100 and E. coli WP2 uvr A with and without metabolic activation. /GENOTOXICITY/ Negative in S. typhimurium TA 1535, TA 1537, TA 98 and TA 100 and E. coli WP2 uvr A /with and without metabolic activation/
- Carcinogenicity: No data available.
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: No data available.
- Aspiration hazard: No data available.

Likely routes of exposure
- LC50 Rat inhalation 200/mg cu m /4 hrs/

Symptoms related to the physical, chemical and toxicological characteristics
- /LABORATORY ANIMALS: Acute Exposure/ Animals /rabbits/ were treated for 1, 5, and 15 min using occlusive conditions. An application site of 2.5x2.5 cm was covered with the liquid test substance. After the application time (1, 5 and 15 min) the skin was washed with Lutrol (50%). The animals were observed for 8 days and skin changes were recorded daily. The report describes findings after 24 hours and at the end of the observation period (8 days). After 24 hours and 8 days, (severe) necrosis was observed after 1, 5 and 15 min of exposure and redness was observed at the edges (both animals). The study was not performed for the 20 hours exposure duration, due to the severe effects observed after 1, 5 and 15 minutes exposure.

SECTION 12: Ecological information

SECTION 12: Ecological information

12.1 Toxicity
- Not available.

12.2 Persistence and degradability
- Not available.

12.3 Bioaccumulative potential
- Not available.

12.4 Mobility in soil
- Not available.

12.5 Results of PBT and vPvB assessment
- Not available.

12.6 Endocrine disrupting properties
- Not available.

12.7 Other adverse effects
- Not available.

SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Do not discharge to drains.
- Contaminated packaging: Dispose of as hazardous waste unless adequately cleaned.
- Waste codes: Not available.

SECTION 14: Transport information

SECTION 14: Transport information

- UN number: Not available.
- UN proper shipping name: Not available.
- Transport hazard class(es): Not available.
- Packing group: Not available.
- Environmental hazards: Not available.
- Special precautions for user: Not available.
- Transport in bulk according to IMO instruments: Not available.

SECTION 15: Regulatory information

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Regulatory listings/status: Not available.

15.2 Chemical safety assessment
- Not available.

SECTION 16: Other information

SECTION 16: Other information

- Product name: Propionyl Chloride
- CAS No.: 79-03-8
- Catalog No.: CS-T-40686
- Supplier: Clearsynth Labs Ltd., Mumbai, India
- Emergency phone: +91-22-245045900

- Revision date: Not available.
- Disclaimer: The information provided is believed to be accurate to the best of our knowledge; however, it is provided without warranty. Users are responsible for determining suitability for their particular application and for complying with applicable laws and regulations.

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