

Material Safety Data Sheet

2-ETHYL HEXANOYL CHLORIDE

Section 1 - Product and Company Information

Substance	: 2-Ethyl Hexanoyl Chloride, 2-ethyl caproyl chloride.
Trade Name	: 2-Ethyl Hexanoyl Chloride
Chemical Family	: Acid Chloride
Company	: Shiva Pharmachem Ltd. Plot No. 588, Village Luna – 391440 Taluka Padra, District: Vadodara, Gujarat, India.
Phone No.	: +91-2662-221021 / 224360
Fax No.	: +91-2662-223314

Section 2 - Hazards Identification

2.1 Classification of the substances or mixture

Classification according to regulations (EC) no 1272 / 2008

Skin Corrosion, (Category 1B)

Classification according to EU directives 67/548/EEC as amended.

Causes
burn.

2.2 Labeling elements

Labeling according to EC 1272 / 2008 (CLP)

Pictogram



Single word

Danger

Hazard Elements

H314

Causes severe skin burn and eye damage

Precautionary statements

P280

Wear protective gloves/protective clothing/eye and face protection

P305 + P351 + P338 IF IN EYES: Rinse cautiously for several minutes.

P310 Immediately call physician

According to EU directives 67/548/EEC as amended

Hazard symbol(s)



Corrosive

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R PHRASE (s)

R35 Causes severe burn

S PHRASE (s)

S26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or you feel unwell, seek medical advice. (Show the label where possible)

2.3 Other hazard

Lachrymator.

Section 3 – Composition / Information on Ingredients

Product Name	CAS No.	EC No.	Mol. Formula	Mol. Wt.
2-Ethyl Hexanoyl Chloride	760-67-8	212-081-1	C ₈ H ₁₅ ClO	162.66 g/mol

Section 4 – First Aid Measures

INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Keep a person warm and at rest. Do not induce vomiting.

EYE Contact

Check for and remove any contact lenses. In case of contact with eyes, flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician

INGESTION

If swallowed, wash out mouth with water provided person is conscious and drink plenty of water. Do not induce vomiting. Call a physician immediately.

SKIN CONTACT

In case of contact with skin, remove contaminated clothing and flush skin with copious amounts of water for at least 15 minutes. Assure adequate. Call a physician

Section 5 – Fire Fighting Measures

CONDITIONS OF FLAMMABILITY

Water hydrolyzes material liberating acidic gas which in contact with metal surfaces can generate flammable and/or explosive hydrogen gas.

EXTINGUISHING MEDIA

Suitable: Carbon dioxide. Dry chemical powder. Unsuitable: Do not use water.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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Section 6 – Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not allow to get in eyes, on skin and on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat and open flame. Store in a cool dry place.

SPECIAL REQUIREMENTS

Readily hydrolyzed.

Section 8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use non sparking tools. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Wash thoroughly after handling. Discard contaminated shoes.

PERSONAL PROTECTIVE EQUIPMENT

Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Face shield (8-inch minimum).

Section 9 - Physical and Chemical Properties

Properties

pH	: Acidic
BP/BP Range	: 182 °C 760 mm Hg , 67.0 - 68.0 °C 11 mm Hg.
MP/MP Range	: - 17.74 °C
Flash Point	: 79 °C Method: closed cup.
Flammability	: Not flammable
Auto ignition Temp	: Data not available.
Oxidizing Properties	: Data not available.

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Explosive Properties	: Data not available.
Explosion Limits	: Data not available.
Vapor Pressure	: 0.72 mmHg 67.7 °C
SG/Density	: 0.939 g/cm ³ at 20°C
Solvent Content	: Nil
Water Content	: Reacts with water. Not applicable.
Solubility	: Miscible with non polar aromatic solvent like toluene. Miscible with methylene dichloride, ethylene dichloride.

Section 10 - Stability and Reactivity

STABILITY:

Stable at normal conditions of temperature and pressure.
Materials to Avoid: Strong bases, Alcohols, Oxidizing agents, Water.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen chloride gas.

Section 11 - Toxicological Information

ACUTE TOXICITY

LC50 Inhalation, Rat, 1,260 mg/m³
Remarks: Lungs, Thorax, or Respiration. Other changes.

LD50 Oral Mammal 1500 mg/kg

LD50 Skin Mammal > 2000 mg/kg

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

ROUTE OF EXPOSURE

Multiple Routes: Harmful if swallowed, inhaled, or absorbed through skin. Causes burns.

Section 12 - Ecological Information

Environmental effect

Shows low bioaccumulation effect.

Aquatic ecotoxicity: Harmful.

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Section 13 - Disposal Considerations

SUBSTANCE DISPOSAL

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT Regulations

UN No. : 2927
Hazard Class : 6.1
Packing Group : II
Hazard label : 6.1 (8)
Proper Shipping Name : Toxic liquid, Corrosive, organic, n.o.s. (2-ethylhexanoyl chloride)

RID/ADR

UN No. : 2927
Hazard Classes : 6.1 (8)
Packing Group : II
Proper Shipping Name : Toxic liquid, Corrosive, organic, n.o.s. (2-ethylhexanoyl chloride)

IMDG

UN No. : 2927
Hazard Classes : 6.1 (8)
Packing Group : II
Proper Shipping Name : Toxic liquid, Corrosive, organic, n.o.s. (2-ethylhexanoyl chloride)
Marine Pollutant : No

Air Transport

IATA / ICAO

UN No. : 2927
Hazard Classes : 6.1 (8)
Packing Group : II
Proper Shipping Name : Toxic liquid, Corrosive, organic, n.o.s. (2-ethylhexanoyl chloride)

Section 15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: C

Corrosive.

R-PHRASES: 35

Causes severe burns.

S-PHRASES: 26, 36/37/39, 45

Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take off immediately all contaminated clothing. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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COUNTRY SPECIFIC INFORMATION

Germany
WGK: 1
ID-Number: 1160
KBwS-Decision

Section 16 - Additional Information

NFPA Hazard Code

HEALTH: 3 FIRES: 2 REACTIVITY: 2 SPECIAL:

HMIS III rating

Health: 3 Flammability: 2 Physical Hazard: 2

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