Chemical Name: Chloroethyl chloroformate

Chemical Classification: Corrosive

Synonyms: 2-Chloroethyl chloroformate, 2-Chloroethyl chlorocarbonate, Carbonochloridic acid, 2-chloroethyl ester

Formula: C₃H₄Cl₂O₂

Regulated Identification

Shipping Name: Poisonous liquid, corrosive

Codes / Label: Class 6.1, Corrosive

Hazchem Code: 3W

Hazardous Waste ID No: 6

HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>No.</th>
<th>C.A.S. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>627-11-2</td>
<td>Chloroethyl chloroformate</td>
</tr>
</tbody>
</table>

2. PHYSICAL / CHEMICAL DATA

Boiling Pt. °C: 150 - 160

Melting Pt °C: -48

Vapour Pressure @ 35°C mmHg: 13 mm Hg at 48-49 deg C

Solubility in water at 30°C g/100ml: Slightly soluble

Specific Gravity (Water =1): 1.3847 @ 20 deg C/4 deg C

PH: 

3. FIRE / EXPLOSION HAZARD DATA

Flammability: LEL: Flash Point °C in OC: 

TDG Flammability: UEL: Flash Point °C in CC: 70

Autoignition Temperature °C: 

Explosion sensitivity to impact: 

Explosion sensitivity to static Electricity: 

Hazardous Combustion Products: When decomposed, toxic gases and vapours (CO, HCl) are released.

Hazardous Polymerization: Will not occur.

Combustible Liquid: Yes 

Explosive Material: No

Flammable Material: No

Oxidiser: No

Pyrophoric Material: No

Organic Peroxide: No

4. REACTIVITY DATA

Chemical Stability: Stable if not exposed to moist air and water

Incompatibility with other material: Acids, hot water, alcohols, strong bases and amines

Reactivity: Reacts with acids, alcohols, strong bases and amines.
CO, HCl

Hazardous Reaction Products

5. HEALTH HAZARD DATA

Routes of entry: Inhalation, Ingestion, Skin and Eyes

Effects of Exposure / Symptoms:
This is a corrosive liquid. Exposure causes iachrymation. It destroys the tissue of mucous membranes, upper respiratory tract and causes burns to the eyes and skin. Even skin contact may cause fatalities. Symptoms of exposure include burning sensation, coughing, wheezing, shortness of breath, nausea, vomiting. Repeated exposure may cause asthma.

Emergency Treatment:
Inhalation: Move patient to fresh air. Monitor for respiratory distress. Administer oxygen and assist ventilation as required. Treat bronchospasm with beta2 agonist and corticosteroid aerosols.

Skin: Remove contaminated clothing and wash exposed area with soap and water. Treat dermal irritation or burns with standard topical therapy. Call a physician.

Eyes: Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes. If irritation, pain, swelling, lacrimation, or photophobia persist, the patient should be seen in a health care facility.

Ingestion: Do not induce vomiting - following ingestion and/or prior to gastric evacuation and give 1-2 cups of milk or water.

LD50 (oral-rat) mg/kg: 256 mg/kg (Mouse)  STEL:
LC50 (rat) mg/kg: Odour Threshold:
Permissible
Exposure Limit:

NFPA Hazard Health Flammability Reactivity Special Signals 3 2

6. PREVENTIVE MEASURES

Personal Protective: Impervious clothing, gloves, face-shields, splash-proof goggles and respirators

Handling: Avoid direct physical contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling should occur in a chemical fume hood.

Storage: Store in a cool, dry place away from heat and open flame. Keep the container closed to ensure no contact with moist air.

Precautions:

7. EMERGENCY / FIRST AID MEASURES

FIRE:

Fire Extinguishing Media: Dry chemical, foam, carbon dioxide

Special Procedure: Under fire conditions container explosion may occur. Use water spray to keep the fire-exposed containers cool.

Unusual Hazards:

EXPOSURE: First Aid Measures:

Inhalation: Move patient to fresh air. Monitor for respiratory distress. Administer oxygen and assist ventilation as required. Treat bronchospasm with beta2 agonist and corticosteroid aerosols.

Skin: Remove contaminated clothing and wash exposed area with soap and water. Treat dermal irritation or burns with standard topical therapy. Call a physician.
**Antidotes / Dosages:**

**SPILLS:**

**Steps To Be Taken:** Shut off all ignition sources. Ventilate the area of spill. Cover the spilled material with sand and transfer to a container. Wash surface with detergent and water.

**Waste Disposal Method:** Collect all wastes in air-tight bags for eventual disposal.

---

**8. ADDITIONAL INFORMATION / REFERENCES**

---

**9. MANUFACTURERS / SUPPLIERS DATA**

**NAME OF FIRM:**

**MAILING ADDRESS:**

**TELEPHONE / TELEX NOS:**

**TELEGRAPHIC ADDRESS:**

**OTHERS:**

**Contact person**

**in Emergency:**

**Local Bodies involved:**

**Standard Packing:**

**Trem Card Details / Ref:**

---

**10. DISCLAIMER**

Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer/seller to ensure that the information contained in the material safety data sheet is relevant to the product manufactured/handled or sold by him as the case may be. The Government makes no warranties expressed or implied in the respect of the adequacy of this document for any particular purpose.

*End of document
Total No. of Pages: 3*