



### ETHYL CHLORO ACETATE CAS No 105-39-5

# MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1 Product identifiers

Product name : Ethyl Chloro Acetate

CAS-No. : 105-39-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : Central Drug House (P) Ltd

7/28 Vardaan House Ansari Road Daryaganj New Delhi -110002

INDIA

Telephone : +91 11 49404040

Email : <a href="mailto:care@cdhfinechemical.com">care@cdhfinechemical.com</a>

1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Serious eye damage (Category 1), H318 Acute aquatic toxicity (Category 1), H400

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 Label elements

### Labelling according Regulation (EC) No 1272/2008

Pictogram

GHS02 GHS06 GHS05 GHS09

Signal word

Hazard statement(s)

H226

Flammable liquid and vapour.

Danger

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled

H318 Causes serious eye damage. H400 Very toxic to aquatic life.

Precautionary statement(s)

P261 Avoid breathing vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P311 Call a POISON CENTER /doctor.

Supplemental Hazard

Statements

none

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Lachrymator.

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component Classification Concentration

Ethyl chloroacetate

CAS-No. 105-39-5 Flam. Lig. 3; Acute Tox. 3; Eye <= 100 %

EC-No. 203-294-0 Dam. 1; Aquatic Acute 1; Index-No. 607-070-00-7 H226, H301, H331, H311,

H318, H400

M-Factor - Aquatic Acute: 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

Use water spray to cool unopened containers.

### SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

### 6.4 Reference to other sections

For disposal see section 13.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510): Flammable liquids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### Personal protective equipment

### Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### **Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

a) Appearance Form: clear, liquid

Colour: colourless
No data available

b) Odourc) Odour Thresholdd) pHNo data availableNo data available

e) Melting point/ Melting point/range: -26 °C - lit.

freezing point

f) Initial boiling point and 143 °C - lit.

boiling range

g) Flash point 54 °C - closed cup
h) Evaporation rate No data available
i) Flammability (solid, gas) No data available

j) Upper/lower No data available

flammability or explosive limits

k) Vapour pressure 10 mmHg at 38 °C

3.3 mmHg at 20 °C

Vapour density No data available

m) Relative density 1.145-1.155 g/cm3 at 20 °C

n) Water solubility No data available o) Partition coefficient: n-No data available

octanol/water

No data available

p) Auto-ignition temperature

q) Decomposition temperature

No data available

No data available r) Viscosity s) Explosive properties No data available No data available Oxidizing properties

#### 9.2 Other safety information

No data available

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas Other decomposition products - No data available

In the event of fire: see section 5

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

LD50 Oral - Rat - 180 mg/kg(Ethyl chloroacetate)

Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Ataxia. Skin and Appendages: Other: Hair.

LC50 Inhalation - Rat - 4 h - 3,830 mg/m3(Ethyl chloroacetate)

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Other. Behavioral: Tremor. Lungs, Thorax, or Respiration: Dyspnea.

LD50 Dermal - Rabbit - 230 mg/kg(Ethyl chloroacetate)

### Skin corrosion/irritation

### Serious eye damage/eye irritation

Eyes - Rabbit(Ethyl chloroacetate) Result: Severe eye irritation - 24 h

### Respiratory or skin sensitisation

No data available(Ethyl chloroacetate)

### Germ cell mutagenicity

No data available(Ethyl chloroacetate)

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

No data available(Ethyl chloroacetate)

### Specific target organ toxicity - single exposure

No data available(Ethyl chloroacetate)

### Specific target organ toxicity - repeated exposure

No data available

### **Aspiration hazard**

No data available(Ethyl chloroacetate)

### **Additional Information**

RTECS: AF9110000

Cough, Shortness of breath, Headache, Nausea, Vomiting(Ethyl chloroacetate)

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Toxicity to fish LC50 - Danio rerio (zebra fish) - 1.48 mg/l - 96.0 h(Ethyl chloroacetate)

Toxicity to daphnia and

other aquatic invertebrates

12.2 Persistence and degradability

Biodegradability Biotic/Aerobic - Exposure time 28 d(Ethyl chloroacetate)

Result: 75 % - Readily biodegradable

Biotic/Aerobic - Exposure time 14 d(Ethyl chloroacetate)

EC50 - Daphnia magna (Water flea) - 1.6 mg/l - 48 h(Ethyl chloroacetate)

Result: 78 % - Readily biodegradable

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available(Ethyl chloroacetate)

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

Very toxic to aquatic life.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

### **Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

### Contaminated packaging

Dispose of as unused product.

### **SECTION 14: Transport information**

### 14.1 UN number

ADR/RID: 1181 IMDG: 1181 IATA: 1181

### 14.2 UN proper shipping name

ADR/RID: ETHYL CHLOROACETATE IMDG: ETHYL CHLOROACETATE ETHYL CHLOROACETATE

### 14.3 Transport hazard class(es)

ADR/RID: 6.1 (3) IMDG: 6.1 (3) IATA: 6.1 (3)

### 14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

### 14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

### 14.6 Special precautions for user

No data available

### **SECTION 15: Regulatory information**

# **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

### **SECTION 16: Other information**

### Full text of H-Statements referred to under sections 2 and 3.

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H301 + H311 + Toxic if swallowed, in contact with skin or if inhaled

H331

H311 Toxic in contact with skin.
H318 Causes serious eye damage.

H331 Toxic if inhaled.

H400 Very toxic to aquatic life.

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.