

# Material Safety Data Sheet



CHLOROACETYL CHLORIDE FOR SYNTH

VERSION : 02  
DATE OF ISSUE : 26-08-2019  
SUPERSEDES : 01

Product Code :13575

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## **1. Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

**Trade name :** CHLOROACETYL CHLORIDE FOR SYNTHESIS

**Product code :** 13575

**Identification of the product :** Chloroacetyl Chloride

CAS No : 79-04-9

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

**Use :** Industrial. For professional use only.

### **1.3. Details of the supplier of the safety data sheet**

**Company identification :** MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

Email : [info@molychem.net](mailto:info@molychem.net)

Works: Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503.

### **1.4. Emergency telephone number**

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm).

## **2. Hazards identification**

### **2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute toxicity (oral), H301

Category 3

Acute toxicity (dermal),

Category 3

H311

Acute toxicity (inhal.), H331

Category 3

Skin corrosion/irritation, H314

Category 1B

Hazardous to the aquatic

environment — Acute Hazard, H400

Category 1

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

**Adverse physicochemical, human health and environmental effects**

No additional information available

### **2.2. Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display**  
**Extra classification(s) to display**

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**Symbol(s)** : T : Very toxic

N : Dangerous for the environment

Highly flammable



**R Phrase(s)** : R14: Reacts violently with water.

R35: Cause severe burns.

R50: Very toxic to aquatic organisms.

R23/24/25 : Toxic by Inhalation, in contact with skin and if swallowed.

R48/23 : Toxic: danger of serious damage to health by prolonged exposure through inhalation

**S Phrase(s)** : S7/8 : Keep container tightly closed and dry.

S36/37/39 : Wear suitable protective clothing and gloves & eye/face protecting.

S9: keep container in a well ventilated place.

S26: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advise.

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

S61: avoid release to the environment . refer to special instruction/safety data sheets.

## Hazard pictograms



**Signal word** : Danger

**Hazard statements** : H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

H314 - Causes severe skin burns and eye damage.

H400 - Very toxic to aquatic life.

**Precautionary statements** : P261 - Avoid breathing vapours, spray, dust, fume, gas.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, 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.

P310 - Immediately call a POISON CENTER/doctor

## 2.3. Other hazards

No additional information available

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### **3. Composition/information on ingredients**

**3.1. Substances :** CHLOROACETIC ACID For Synthesis

CAS-No. : 79- 04- 9

Substance.

Contains no other components or impurities which will influence the classification of the product.

### **4. First aid measures**

#### **4.1. Description of first aid measures**

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact : Immediately call a POISON CENTER/doctor.

Wash with plenty of water/.... Wash contaminated clothing before reuse.

First-aid measures after eye contact : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : Rinse mouth. Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

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

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.

Symptoms/effects after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

### **5. Firefighting measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

#### **5.3. Advice for firefighters**

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### **6. Accidental release measures**

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

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## **6.1.1. For non-emergency personnel**

Emergency procedures : Evacuate unnecessary personnel.

## **6.1.2. For emergency responders**

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

## **6.2. Environmental precautions**

Very toxic to aquatic life.

## **6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

## **6.4. Reference to other sections**

No additional information available

## **7. Handling and storage**

### **7.1. Precautions for safe handling**

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Technical measures : Comply with applicable regulations.

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

### **7.3. Specific end use(s)**

No additional information available

## **8. Exposure controls/personal protection**

### **8.1. Control parameters**

No additional information available

### **8.2. Exposure controls**

Hand protection : Protective gloves

Eye protection : Chemical goggles or face shield

Skin and body protection : Wear suitable protective clothing

Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

## **9. Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

**Odour threshold** : No data available

**pH** : < 1 at 800 g/l at 20 °C

**Relative evaporation rate (butylacetate=1)** : No data available

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**Melting point** : 60 - 63 °C

**Freezing point** : No data available

**Boiling point** : 189 °C

**Flash point** : 126 °C

**Auto-ignition temperature** : No data available

**Decomposition temperature** : No data available

**Flammability (solid, gas)** : No data available

**Vapour pressure** : 0.2 hPa at 20 °C

**Relative vapour density at 20 °C** : 3.26

**Relative density** : No data available

**Density** : 1.58 g/cm<sup>3</sup>

**Solubility** : Water: Very soluble in water

**Log Pow** : 0.2

**Viscosity, kinematic** : No data available

**Viscosity, dynamic** : No data available

**Explosive properties** : No data available

**Oxidising properties** : No data available

**Explosive limits** :  $\geq 0.08$  vol %

## 9.2. Other information

No additional information available

## 10. Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Air contact. Moisture.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

## 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.

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Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: < 1 at 800 g/l at 20 °C

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: < 1 at 800 g/l at 20 °C

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Toxic if swallowed. Toxic in contact with skin.

## **12. Ecological information**

### **12.1. Toxicity**

Ecology - water : Very toxic to aquatic life.

### **12.2. Persistence and degradability**

No additional information available

### **12.3. Bioaccumulative potential**

Log Pow 0.2

### **12.4. Mobility in soil**

No additional information available

### **12.5. Results of PBT and vPvB assessment**

No additional information available

### **12.6. Other adverse effects**

No additional information available

## **13. Disposal considerations**

### **13.1. Waste treatment methods**

Product/Packaging disposal

Recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials : Hazardous waste due to toxicity.

## **14. Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

### **14.1. UN number**

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UN-No. (IMDG) : 1751

UN-No. (IATA) : 1751

UN-No. (ADN) : 1751

UN-No. (RID) : 1751

## 14.2. UN proper shipping name

Proper Shipping Name (ADR) : CHLOROACETIC ACID, SOLID

Proper Shipping Name (IMDG) : CHLOROACETIC ACID, SOLID

Proper Shipping Name (IATA) : Chloroacetic acid, solid

Proper Shipping Name (ADN) : CHLOROACETIC ACID, SOLID

Proper Shipping Name (RID) : CHLOROACETIC ACID, SOLID

Transport document description (ADR) : UN 1751 CHLOROACETIC ACID, SOLID, 6.1 (8), II, (D/E), ENVIRONMENTALLY

HAZARDOUS

Transport document description (IMDG) : UN 1751 CHLOROACETIC ACID, SOLID, 6.1 (8), II, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 1751 Chloroacetic acid, solid, 6.1, II, ENVIRONMENTALLY HAZARDOUS

Transport document description (ADN) : UN 1751 CHLOROACETIC ACID, SOLID, 6.1 (8), II, ENVIRONMENTALLY

HAZARDOUS

Transport document description (RID) : UN 1751 CHLOROACETIC ACID, SOLID, 6.1 (8), II, ENVIRONMENTALLY

HAZARDOUS

## 14.3. Transport hazard class(es)

**ADR-** Transport hazard class(es) (ADR) : 6.1 (8)

Danger labels (ADR) : 6.1, 8

**IMDG-** Transport hazard class(es) (IMDG) : 6.1 (8)

Danger labels (IMDG) : 6.1, 8

**IATA-** Transport hazard class(es) (IATA) : 6.1 (8)

Hazard labels (IATA) : 6.1, 8

**ADN-** Transport hazard class(es) (ADN) : 6.1 (8)

Danger labels (ADN) : 6.1, 8

**RID-** Transport hazard class(es) (RID) : 6.1 (8)

Danger labels (RID) : 6.1, 8

## 14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

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Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

## 14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

## 14.6. Special precautions for user

**Overland transport-** Classification code (ADR) : TC2

Limited quantities (ADR) : 500g

Excepted quantities (ADR) : E4

Packing instructions (ADR) : P002, IBC08

Special packing provisions (ADR) : B4

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions (ADR) : T3

Portable tank and bulk container special provisions (ADR) : TP33

Tank code (ADR) : SGAH

Tank special provisions (ADR) : TU15, TE19

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Special provisions for carriage – Packages (ADR) : V11

Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28

Special provisions for carriage – Operation (ADR) : S9, S19

Hazard identification number (Kemler No.) : 68

Orange plates :

Tunnel restriction code (ADR) : D/E

EAC code : 2X

**Transport by sea-** Packing instructions (IMDG) : P002

IBC packing instructions (IMDG) : IBC08

IBC special provisions (IMDG) : B21, B4

Tank instructions (IMDG) : T3

Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-B

Stowage category (IMDG) : C

Stowage and handling (IMDG) : SW2

Properties and observations (IMDG) : Colourless, very deliquescent crystals. Melting point may be as low as 50°C. In the

presence of moisture, corrosive to most metals. Toxic if swallowed, by skin contact

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or by dust inhalation. Causes burns to skin, eyes and mucous membranes.

MFAG-No : 153

**Air transport-** PCA Excepted quantities (IATA) : E4

PCA Limited quantities (IATA) : Y644

PCA limited quantity max net quantity (IATA) : 1kg

PCA packing instructions (IATA) : 668

PCA max net quantity (IATA) : 15kg

CAO packing instructions (IATA) : 675

CAO max net quantity (IATA) : 50kg

ERG code (IATA) : 6C

**Inland waterway transport-** Classification code (ADN) : TC2

Special provisions (ADN) : 802

Limited quantities (ADN) : 500 g

Excepted quantities (ADN) : E4

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 2

**Rail transport-** Classification code (RID) : TC2

Excepted quantities (RID) : E4

Packing instructions (RID) : P002, IBC08

Special packing provisions (RID) : B4

Mixed packing provisions (RID) : MP10

Portable tank and bulk container instructions (RID) : T3

Portable tank and bulk container special provisions (RID) : TP33

Tank codes for RID tanks (RID) : SGAH

Special provisions for RID tanks (RID) : TU15

Transport category (RID) : 2

Special provisions for carriage – Packages (RID) : W11

Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW28, CW31

Colis express (express parcels) (RID) : CE9

Hazard identification number (RID) : 68

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## **15. Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

### **15.1.1. EU-Regulations**

No REACH Annex XVII restrictions

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CHLOROACETIC ACID For Synthesis is not on the REACH Candidate List  
CHLOROACETIC ACID For Synthesis is not on the REACH Annex XIV List

## **15.1.2. National regulations**

### **Germany**

Reference to AwSV : Water hazard class (WGK) 3, severe hazard to water (Classification according to

AwSV; ID No. 227)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

### **Netherlands**

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen –

Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

### **Denmark**

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

## **15.2. Chemical safety assessment**

No additional information available

## **16. Other information**

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 **DISCLAIMER OF LIABILITY** The information in this SDS was

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## **End of document**

**Prepared by: MOLYCHEM (INDIA)**

**For questions contact: MOLYCHEM**

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