

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : MONO CHLORO ACETONE 99% MIN

**Company:** MIT-IVY INDUSTRY CO.,LTD.  
**Address:** 2-1402, Shimao Plaza, Yunlong District Xuzhou  
**Responsible Department:** China  
**Telephone:** Sales Department  
**Fax:** +86-13805212761  
**e-mail:**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Chloro-2-propanone  
1-Chloropropan-2-one  
MCA

Formula :  $C_3H_5ClO$   
Molecular Weight : 92.52 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Chloroacetone</b>			
78-95-5	201-161-1	-	-

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Flammable Liquid, Highly toxic by inhalation, Toxic by ingestion, Highly toxic by skin absorption, Irritant

##### Other hazards which do not result in classification

Lachrymator., Vesicant.

#### HMIS Classification

**Health Hazard:** 3  
**Flammability:** 3  
**Physical hazards:** 0

#### NFPA Rating

**Health Hazard:** 3  
**Fire:** 3  
**Reactivity Hazard:** 0

#### Potential Health Effects

<b>Inhalation</b>	May be fatal if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	Causes skin irritation. May be fatal if absorbed through skin.
<b>Eyes</b>	Causes eye irritation.
<b>Ingestion</b>	Toxic if swallowed.

#### 4. FIRST AID MEASURES

##### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### **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.

#### 5. FIRE-FIGHTING MEASURES

##### **Flammable properties**

Flash point                      27 °C - closed cup  
    27°C - closed cup

Ignition temperature      no data available

##### **Suitable extinguishing media**

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

##### **Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

##### **Further information**

Use water spray to cool unopened containers.

#### 6. ACCIDENTAL RELEASE MEASURES

##### **Personal precautions**

Wear respiratory protection. Avoid breathing vapors, 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.

##### **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.

##### **Methods for cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

##### **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.

### Storage

keep away from sources of ignition-no smoking.take measure to prevent the build up of electrostatic charge.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.

recommended storage temperature:not more than 30 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Chloroacetone	78-95-5	CEIL	1 ppm 3.8 mg/m3	1994-09-01	US. American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in the Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs ) and Biological Exposure Indices (BEIs)
Remarks	Skin contact does contribute to exposure.				

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of 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).

#### Hand protection

Handle with gloves.

#### Eye protection

Safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Colorless to light yellow transparent liquid

Odour unpleasant

### Safety data

pH no data available

Melting point	-44.5 °C (-48.1 °F)
Boiling point	119.7 °C
Flash point	27°C - closed cup 27 °C - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.123 g/mL at 25 °C (77 °F)
Water solubility	no data available

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions.

### Conditions to avoid

Heat, flames and sparks.

### Materials to avoid

Strong bases

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas

### Hazardous reactions

Vapours may form explosive mixture with air.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - 100 mg/kg

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

LD50 Dermal - rabbit - 141 mg/kg

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

### Irritation and corrosion

no data available

### Sensitisation

no data available

### Chronic exposure

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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

a carcinogen or potential carcinogen by OSHA.

### Signs and Symptoms of Exposure

Dizziness

### Potential Health Effects

<b>Inhalation</b>	May be fatal if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	Causes skin irritation. May be fatal if absorbed through skin.
<b>Eyes</b>	Causes eye irritation.
<b>Ingestion</b>	Toxic if swallowed.

### Additional Information

RTECS: UC0700000

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## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

no data available

### Ecotoxicity effects

no data available

### Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## 13. DISPOSAL CONSIDERATIONS

### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

### DOT (US)

UN-Number: 1695 Class: 6.1 (3, 8) Packing group: I  
Proper shipping name: Chloroacetone, stabilized  
Marine pollutant: Marine pollutant  
Poison Inhalation Hazard: Hazard zone B

### IMDG

UN-Number: 1695 Class: 6.1 (3, 8) Packing group: I EMS-No: F-E, S-C  
Proper shipping name: CHLOROACETONE, STABILIZED  
Marine pollutant: Marine pollutant

### IATA

UN-Number: 1695 Class: 6.1 (3, 8)  
Proper shipping name: Chloroacetone, stabilized  
IATA Passenger: Not permitted for transport  
IATA Cargo: Not permitted for transport

## 15. REGULATORY INFORMATION

### OSHA Hazards

Flammable Liquid, Highly toxic by inhalation, Toxic by ingestion, Highly toxic by skin absorption, Irritant

### DSL Status

All components of this product are on the Canadian DSL list.

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

### Massachusetts Right To Know Components

Chloroacetone

CAS-No.  
78-95-5

Revision Date  
1994-04-24

### Pennsylvania Right To Know Components

Chloroacetone

CAS-No.  
78-95-5

Revision Date  
1994-04-24

### New Jersey Right To Know Components

Chloroacetone

CAS-No.  
78-95-5

Revision Date  
1994-04-24

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

## 16. OTHER INFORMATION

### 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.