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# **SAFETY DATA SHEET**

#### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: Cyclopropanecarbonyl Chloride

Product code: C1059

Company: TCI (Shanghai) DEVELOPMENT CO., LTD.

Address: No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China

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Revision number: 1

### 2. HAZARDS IDENTIFICATION

Classification of the GHS
PHYSICAL HAZARDS
Flammable liquids

Flammable liquids

**HEALTH HAZARDS** 

Acute toxicity (Oral)
Skin corrosion/irritation
Serious eye damage/eye irritation
ENVIRONMENTAL HAZARDS
Category 1
Category 1
Not classified

**GHS** label elements

Pictograms or hazard symbols





Signal word Hazard statement Danger

Category 3

Flammable liquid and vapour

Toxic if swallowed

Causes severe skin burns and eye damage

**Precautionary statements** 

[Prevention]

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary

measures against ignition by the static discharge and the spark.

Do not breathe.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Wear protective gloves/eve protection/face protection.

[Response] IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse

mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

Wash contaminated clothing before reuse.

Immediately call a POISON CENTER or doctor/physician.

## 2. HAZARDS IDENTIFICATION

[Storage] Store in a well-ventilated place. Keep cool.

Store locked up.

[Disposal] Dispose of contents/container through a waste management company authorized by

the local government

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

**Component(s):** Cyclopropanecarbonyl Chloride

Percent: >97.0%(T)CAS Number: 4023-34-1Chemical Formula:  $C_4H_5CIO$ 

#### 4. FIRST AID MEASURES

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

**Skin contact:** Remove/Take off immediately all contaminated clothing. Gently wash with plenty of

soap and water. Immediately call a POISON CENTER or doctor/physician.

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 or

doctor/physician.

Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-

tight goggles.

# 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing** Dry chemical, carbon dioxide.

media:

Extinguishing media not to Water

be used:

**Specific hazards:** Take care as it may decompose upon combustion or in high temperatures to

generate poisonous fume.

**Specific methods:** Fire-extinguishing work is done from the windward and the suitable fire-extinguishing

method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water but NO direct contact with water. Eliminate all ignition sources if

safe to do so.

**Special protective** When extinguishing fire, be sure to wear personal protective equipment.

equipment for firefighters:

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

**Environmental precautions:** Prevent product from entering drains.

Methods and materials for containment and cleaning

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with

appropriate laws and regulations.

Prevention of secondary

hazards:

up:

Do not allow contact with water. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-

proof equipment.

# 7. HANDLING AND STORAGE

**Handling** 

# 7. HANDLING AND STORAGE

**Technical measures:** Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent generation of vapor or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after

handling.

Use a closed system if possible. Use a ventilation, local exhaust if vapor or aerosol

will be generated.

**Advice on safe handling:** Avoid contact with skin, eyes and clothing.

May develop pressure. Open carefully.

Storage

**Storage conditions:** Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store under inert gas. Protect from moisture. Store locked up.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Law is followed.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied

air respirator, etc. Use respirators approved under appropriate government standards

and follow local and national regulations.

Hand protection: Impervious gloves.

**Eye protection:** Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid clear

Color: Colorless - Reddish yellow

Odor: No data available PH: No data available Melting point/freezing point: No data available

**Boiling Point/Range**: 119 °C **Flash Point**: 23°C

**Explosive limits** 

Lower: No data available Upper: No data available

Density: 1.15

**Solubility:** No data available

#### 10. STABILITY AND REACTIVITY

**Stability:** Stable under proper conditions.

**Reactivity:** Decomposes in contact with water and liberates toxic gases.

**Conditions to avoid:** Moisture-sensitive **Incompartible materials:** oxidizing agents, bases

Hazardous Decomposition Carbon monoxide, Carbon dioxide, Hydrogen chloride

Products:

# 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:
Skin corrosion/irritation:
No data available
No data available
No data available

damage/irritation:

Germ cell mutagenicity: No data available

## 11. TOXICOLOGICAL INFORMATION

Carcinogenicity:

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** 

Fish:
Crustacea:
Algae:
No data available

potential(BCF): Mobillity in soil

log Pow:No data availableSoil adsorption (Koc):No data availableHenry's LawNo data available

constant(PaM³/mol):

#### 13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

#### 14. TRANSPORT INFORMATION

Hazards Class: 8: Corrosive.

**Subsidiary risk:** 3: Flammable liquid.

**UN-No**: 2920

**Proper shipping name:** Corrosive liquid, flammable, n.o.s.

Packing group:

#### 15. REGULATORY INFORMATION

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

# **16. OTHER INFORMATION**

The reference company name of written contents

Company: TCI (Shanghai) DEVELOPMENT CO., LTD.

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