**Orthodichloroacetic Acid Triethyl Ester** Revision number: 1 **Revision date: 12/01/2010** Page 1 of 4

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## SAFETY DATA SHEET

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

Product name: Orthodichloroacetic Acid Triethyl Ester

Product code: O0274

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

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

**Responsible Department:** Sales Department +86-(0)21-67121386 Telephone: Fax: +86-(0)21-67121385 e-mail: sales@tcishanghai.com.cn

Revision number:

### 2. HAZARDS IDENTIFICATION

Classification of the GHS **PHYSICAL HAZARDS** 

Flammable liquids Category 4

**HEALTH HAZARDS** 

Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A **ENVIRONMENTAL HAZARDS** Not classified

**GHS** label elements

Pictograms or hazard symbols



Warning Signal word

Combustible liquid **Hazard statement** Causes skin irritation

Causes serious eye irritation

**Precautionary statements** 

[Prevention] Keep away from flames and hot surfaces.

Wash hands thoroughly after handling.

Wear protective gloves and eye/face protection.

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

if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Store in a well-ventilated place. Keep cool.

[Storage]

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

the local government

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Orthodichloroacetic Acid Triethyl Ester Component(s):

Percent: >95.0%(GC) **CAS Number:** 54567-92-9

1,1,1-Triethoxy-2,2-dichloroethane, Triethyl Orthodichloroacetate Synonyms:

**Chemical Formula:** C<sub>8</sub>H<sub>16</sub>Cl<sub>2</sub>O<sub>3</sub>

## 4. FIRST AID MEASURES

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

Get medical advice/attention if you feel unwell.

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

soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Rinse cautiously with water for several minutes. Remove contact lenses, if present Eye contact:

and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Get medical advice/attention if you feel unwell. Rinse mouth. Ingestion:

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, foam, water spray, carbon dioxide.

media:

Extinguishing media not to Solid streams of water

be used:

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

generate poisonous fume.

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

> method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable

containers if safe to do so.

**Special protective** 

equipment for firefighters:

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

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and

emergency procedures:

Methods and materials for containment and cleaning

up:

Use personal protective equipment. 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.

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). 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:

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

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

Prevent generation of vapor or mist. Keep away from flames and hot surfaces. 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, ventilation.

Advice on safe handling:

Avoid contact with skin, eyes and clothing.

Storage

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

> Store under inert gas. Protect from moisture.

Store away from incompatible materials such as oxidizing agents.

Law is followed. Packaging material:

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust as possible so that workers should not be

exposed directly. Also install safety shower and eye bath.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

**Respiratory protection:** Vapor respirator. Follow local and national regulations.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. A face-shield, if the situation requires. **Skin and body protection:** Protective clothing. Protective boots, if the situation requires.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid clear

Color: Colorless - Almost colorless

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

Boiling Point/Range: 195 °C

Flash Point: No data available

**Explosive limits** 

Lower: No data available Upper: No data available

Density: 1.13

Solubility: No data available

#### 10. STABILITY AND REACTIVITY

**Stability:** Stable under proper conditions.

**Reactivity:** No special reactivity has been reported.

Conditions to avoid: Moisture-sensitive Incompartible materials: oxidizing agents

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

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: Does not correspond to the classification standard of the United Nations

UN-No: Not Listed

#### 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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**Department:** R&D (Information Management) Department

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