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SAFETY DATA SHEET

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

Product name: 15-Crown 5-Ether

Product code: C0859

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

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

Not classified

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

Revision number: 1

2. HAZARDS IDENTIFICATION

Classification of the GHS PHYSICAL HAZARDS HEALTH HAZARDS

Acute toxicity (Oral)
Category 4
Acute toxicity (Dermal)
Skin corrosion/irritation
Category 3
Serious eye damage/eye irritation
Category 2A
ENVIRONMENTAL HAZARDS
Not classified

GHS label elements

Pictograms or hazard symbols



Signal word Warning

Hazard statement Harmful if swallowed

May be harmful in contact with skin

Causes mild skin irritation Causes serious eye irritation

Precautionary statements

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

Wash hands thoroughly after handling.

Wear protective gloves/eye protection/face protection.

[Response] IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

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 skin irritation occurs: Get medical advice/attention.

Call a POISON CENTER or doctor/physician if you feel unwell.

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

the local government

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:SubstanceComponent(s):15-Crown 5-EtherPercent:>97.0%(GC)CAS Number:33100-27-5

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 1,4,7,10,13-Pentaoxacyclopentadecane

Chemical Formula: C10H20O5

4. FIRST AID MEASURES

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

Call a POISON CENTER or doctor/physician 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.

Ingestion: Call a POISON CENTER or doctor/physician if you feel unwell. 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

media:

Dry chemical, foam, water spray, carbon dioxide.

be used:

Extinguishing media not to Solid streams of water

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: Remove movable

containers 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 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.

Methods and materials for

containment and cleaning

up:

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.

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. Wash hands and face thoroughly after handling.

Use a ventilation, local exhaust if vapor or aerosol will be generated.

Advice on safe handling:

Storage

Storage conditions: Keep container tightly closed. Store in a cool and dark place.

Avoid contact with skin, eyes and clothing.

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.

Personal protective equipment

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

Hand protection: Protective gloves.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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 - Pale yellow Odor: No data available PH: No data available Melting point/freezing point: No data available Boiling Point/Range: 116 °C/0.2kPa Flash Point: No data available

Explosive limits

Lower: No data available Upper: No data available

Density: 1.11

Solubility: No data available

10. STABILITY AND REACTIVITY

Stability: Stable under proper conditions.

Reactivity: No special reactivity has been reported.

Conditions to avoid: Hygroscopic Incompartible materials: oxidizing agents

Hazardous Decomposition Carbon monoxide, Carbon dioxide

Products:

11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation:

Acute Toxicity: orl-rat LD50:1410 mg/kg

skn-rbt LD50:2520 mg/kg ipr-rat LD50:530 mg/kg

skn-rbt 100 mg/24H MLD

Serious eye eye-rbt 50 mg MOD

damage/irritation:

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available
RTECS Number: SB0200000

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.

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

Department: R&D (Information Management) Department

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