TCI (Shanghai) DEVELOPMENT CO., LTD.

Tetrahydrothiophene

Revision number: 1

Revision date: 12/01/2010

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SAFETY DATA SHEET

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

Product name: Product code: Company: Address: Responsible Department: Telephone: Fax: e-mail: Revision number:

Tetrahydrothiophene T0114 TCI (Shanghai) DEVELOPMENT CO., LTD. No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China Sales Department +86-(0)21-67121386 +86-(0)21-67121385 sales@tcishanghai.com.cn 1

2. HAZARDS IDENTIFICATION Classification of the GHS

PHYSICAL HAZARDS Flammable liquids HEALTH HAZARDS Acute toxicity (Oral) Acute toxicity (Dermal) Acute toxicity (Inhalation) Skin corrosion/irritation Serious eye damage/eye irritation ENVIRONMENTAL HAZARDS Acute aquatic toxicity Chronic aquatic toxicity GHS label elements Pictograms or hazard symbols



Signal word Hazard statement

Precautionary statements [Prevention]

Causes serious eye irritation Harmful to aquatic life Harmful to aquatic life with long lasting effects 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. Avoid breathing. Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

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

Wash hands thoroughly after handling.

Wear protective gloves and eye/face protection.

Danger

Category 2

Category 4

Category 4

Category 4

Category 2

Category 3

Category 3

Category 2A

Highly flammable liquid and vapour Harmful by inhalation, in contact with skin and if swallowed Causes skin irritation Causes serious eye irritation Harmful to aquatic life Harmful to aquatic life with long lasting effects

2. HAZARDS IDENTIFICATION

[Response]	IF INHALED: 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. 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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	If skin irritation occurs: Get medical advice/attention.
	Wash contaminated clothing before reuse.
	Call a POISON CENTER or doctor/physician if you feel unwell.
[Storage]	Store in a well-ventilated place. Keep cool.
[Disposal]	Dispose of contents/container through a waste management company authorized by the local government
3. COMPOSITION/INFORMATIO	
Substance/mixture:	Substance

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Substance/mixture:	Substance
Component(s):	Tetrahydrothiophene
Percent:	>99.0%(GC)
CAS Number:	110-01-0
Chemical Formula:	C ₄ H ₈ S

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.
Eye contact:	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.
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.
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. Eliminate all ignition sources if safe to do so.
Special protective equipment for firefighters:	When extinguishing fire, be sure to wear personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

emergency procedures: Environmental precautions: Methods and materials for	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. Prevent product from entering drains. 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
Environmental precautions: Methods and materials for containment and cleaning	Absorb spilled material in dry sand or inert absorbent before recovering it into airtight container. In case of large amount of spillage, contain a spill by bundi

6. ACCIDENTAL RELEASE MEASURES

Prevention of secondary	Remove all sources of ignition. Fire-extinguishing devices should be prepared in
hazards:	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 heat/sparks/open flame/hot surfacesNo 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
Advice on safe handling:	will be generated. Avoid contact with skin, eyes and clothing.
Storage	
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. 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:	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	
Form:	clear	
Color:	Colorless - Almost colorless	
Odor:	No data available	
pH:	No data available	
Melting point/freezing point: No data available		
Boiling Point/Range:	121 °C	
Flash Point:	13°C	
Explosive limits		
Lower:	No data available	
Upper:	No data available	
Density:	1.00	
Solubility:	No data available	

10. STABILITY AND REACTIVITY

Stability:	Stable under proper conditions.	
Reactivity:	No special reactivity has been reported.	
Incompartible materials:	oxidizing agents	
Hazardous Decomposition	Carbon monoxide, Carbon dioxide, Sulphur oxides	
Products:		

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye	No data available
damage/irritation:	
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available

11. TOXICOLOGICAL INFORMATION

NTP =	No data available
Reproductive toxicity:	No data available
RTECS Number:	XN0370000

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative	No data available
potential(BCF):	
Mobillity in soil	
log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law	No data available
constant(PaM ³ /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 but exert extra care in igniting as this material is highly flammable. Observe all federal, state and local regulations when disposing of the substance

14. TRANSPORT INFORMATION

Hazards Class:	3: Flammable liquid.
UN-No:	2412
Proper shipping name:	Tetrahydrothiophene
Packing group:	II

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.

The list of a dangerous chemical(2002)/CN-No.: 32111

16. OTHER INFORMATION

The reference company name of written contents

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