TCI (Shanghai) DEVELOPMENT CO., LTD.

(S)-(-)-Tetrahydrofuran-2-carboxylic Acid

**Revision number:** 1

Revision date: 12/01/2010

Page 1 of 4

Revision date: 12/01/2010

# SAFETY DATA SHEET

Category 1

Category 1C

Category 1 Not classified

Danger

# 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:** 

(S)-(-)-Tetrahydrofuran-2-carboxylic Acid T1741 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 **Corrosive to metals HEALTH HAZARDS** Skin corrosion/irritation Serious eye damage/eye irritation **ENVIRONMENTAL HAZARDS GHS** label elements

Pictograms or hazard symbols



Signal word Hazard statement

eignaí hera	2 0	
Hazard statement	May be corrosive to metals	
	Causes severe skin burns and eye damage	
Precautionary statements		
[Prevention]	Keep only in original container.	
	Do not breathe.	
	Wash hands thoroughly after handling.	
	Wear protective gloves/eye protection/face protection.	
[Response]	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
	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.	
	Absorb spillage to prevent material damage.	
[Storage]	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

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **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.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
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.
Extinguishing media not to be used:	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 equipment for firefighters:	When extinguishing fire, be sure to wear personal protective equipment.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	Use extra personal protective equipment (self-contained breathing apparatus). Keep
protective equipment and	people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-
emergency procedures:	involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions:	Prevent product from entering drains.
Methods and materials for	Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust).
containment and cleaning	In case of large amount of spillage, contain a spill by bunding. Adhered or collected
up:	material should be promptly disposed of, in accordance with appropriate laws and regulations.
	protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning

# 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 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. Use corrosive resistant equipment.
Storage	
Storage conditions:	Keep container tightly closed. Store in a cool and dark place. Store locked up.
Packaging material:	Store away from incompatible materials such as oxidizing agents. Law is followed. Keep only in original container.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Install a closed system or local exhaust. Also install safety shower and eye bath.	
Personal protective equipment		
Decuiraters, protection.	Light or full foregringer reprinter and contained breathing experts (CCDA) eventiad	

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
Form:	clear
Color:	Colorless - Pale yellow
Odor:	No data available
pH:	No data available
Melting point/freezing point	No data available
Boiling Point/Range:	251 °C
Flash Point:	139°C
Explosive limits	
Lower:	No data available
Upper:	No data available
Density:	1.21
Solubility:	No data available

#### **10. STABILITY AND REACTIVITY**

Stability:	Stable under proper conditions.
Reactivity:	No special reactivity has been reported.
Incompartible materials:	oxidizing agents, bases
Hazardous Decomposition	Carbon monoxide, Carbon dioxide
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
NTP =	No data available
Reproductive toxicity:	No data available

# **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 <sup>3</sup> /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.
UN-No:	3265
Proper shipping name:	Corrosive liquid, acidic, organic, n.o.s.
Packing group:	III

# **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
Telephone:	+86-(0)21-67121388*461
Fax:	+86-(0)21-67121385
SDS was propared sincerely	on the basis of the information we could obtained however, any warranty shall not be given regarding the data

This MSDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority.products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.