TCI (Shanghai) DEVELOPMENT CO., LTD.

1,4-Cyclohexanedimethanol (cis- and trans- mixture) **Revision number:** 1 Revision date: 11/29/2010

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SAFETY DATA SHEET

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

Product name: 1,4-Cyclohexanedimethanol (cis- and trans- mixture) **Product code:** C0479 Company: TCI (Shanghai) DEVELOPMENT CO., LTD. Address: No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China Sales Department **Responsible Department:** +86-(0)21-67121386 Telephone: +86-(0)21-67121385 sales@tcishanghai.com.cn **Revision number:** 1

2. HAZARDS IDENTIFICATION

Fax: e-mail:

Classification of the GHS Not classified PHYSICAL HAZARDS Not classified **HEALTH HAZARDS ENVIRONMENTAL HAZARDS** Not classified **GHS** label elements Pictograms or hazard symbols None Signal word No signal word Hazard statement None None **Precautionary statements**

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Component(s):	1,4-Cyclohexanedimethanol (cis- and trans- mixture)
Percent:	>99.0%(GC)
CAS Number:	105-08-8
Synonyms:	1,4-Bis(hydroxymethyl)cyclohexane (cis- and trans- mixture), α , α '-Dihydroxy-1,4- dimethylcyclohexane (cis- and trans- mixture)
Chemical Formula:	$C_8H_{16}O_2$

4. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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:	Get medical advice/attention 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 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.

5. FIRE-FIGHTING MEASURES

Special protective When extinguishing fire, be sure to wear personal protective equipment. equipment for firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	Use personal protective equipment. Keep people away from and upwind of spill/leak.
protective equipment and	Ensure adequate ventilation. Entry to non-involved personnel should be controlled
emergency procedures:	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.

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:	Avoid contact with skin, eyes and clothing.
Storage	
Storage conditions:	Keep container tightly closed. Store in a cool and dark 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 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.	
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:	162 °C/1.3kPa	
Flash Point:	166°C	
Explosive limits		
Lower:	No data available	
Upper:	No data available	
Vapor Density:	5	
Density:	No data available	
Solubility:	Soluble in : Water Ethanol Methanol	
Autoignition Temperature:	316°C	

10. STABILITY AND REACTIVITY

Stability:	Stable under proper conditions.
Reactivity:	No special reactivity has been reported.
Incompartible materials:	oxidizing agents

10. STABILITY AND REACTIVITY

Hazardous Decomposition Carbon monoxide, Carbon dioxide Products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	ipr-mus LDLo:1600 mg/kg orl-mus LDLo:1600 mg/kg orl-rat LDLo:3200 mg/kg ipr-rat LDLo:800 mg/kg
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
RTECS Number:	GU9800000

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. 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 NationsUN-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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16. OTHER INFORMATION

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.