TCI (Shanghai) DEVELOPMENT CO., LTD.

(2S,4S)-(+)-2,4-Pentanediol

**Revision number:** 1

Revision date: 12/01/2010

Page 1 of 3

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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: (2S,4S)-(+)-2,4-Pentanediol P1412 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	Not classified
HEALTH HAZARDS	Not classified
ENVIRONMENTAL HAZARDS	Not classified
GHS label elements	
Pictograms or hazard symbols	None
Signal word	No signal word
Hazard statement	None
Precautionary statements	None

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

Substance/mixture: Component(s):	Substance (2S,4S)-(+)-2,4-Pentanediol
Percent:	>98.0%(GC)
CAS Number:	72345-23-4
Synonyms: Chemical Formula:	$(2S,4S)$ -(+)-2,4-Dihydroxypentane $C_5H_{12}O_2$

# 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	Entry to non-involved personnel should be controlled around the leakage area by
emergency procedures:	roping off, etc.
Environmental precautions:	Prevent product from entering drains.
Methods and materials for	Sweep dust to collect it into an airtight container, taking care not to disperse it.
containment and cleaning	Adhered or collected material should be promptly disposed of, in accordance with
up:	appropriate laws and regulations.
	protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning

### 7. HANDLING AND STORAGE

# Handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated.	
Avoid contact with skin, eyes and clothing.	
Keep container tightly closed. Store in a cool and dark place. Store under inert gas.	
Protect from moisture.	
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 lo

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:	Dust 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):	Solid
Form:	crystal - powder
Color:	White - Almost white
Odor:	No data available
pH:	No data available
Melting point/freezing point	:48 °C
Boiling Point/Range:	No data available
Flash Point:	No data available
Explosive limits	
Lower:	No data available
Upper:	No data available
Density:	No data available
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**

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
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#### **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 dissolve or mix material with a combustible solvent and 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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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.