TCI (Shanghai) DEVELOPMENT CO., LTD.

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3,3'-Iminodipropionitrile

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SAFETY DATA SHEET

TCI (Shanghai) DEVELOPMENT CO., LTD.

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER 3,3'-Iminodipropionitrile

Sales Department

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

2. HAZARDS IDENTIFICATION

Classification of the GHS PHYSICAL HAZARDS **HEALTH HAZARDS** Acute toxicity (Oral) Acute toxicity (Dermal) Skin corrosion/irritation Serious eye damage/eye irritation **ENVIRONMENTAL HAZARDS GHS** label elements Pictograms or hazard symbols



Signal word Hazard statement

Precautionary statements [Prevention]

Not classified

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

Category 5 Category 5 Category 2 Category 2A Not classified

Warning May be harmful in contact with skin and if swallowed Causes skin irritation Causes serious eye irritation

Wash hands thoroughly after handling. Wear protective gloves/eye protection/face protection. [Response] 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: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Call a POISON CENTER or doctor/physician if you feel unwell.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Component(s):	3,3'-Iminodipropionitrile
Percent:	>98.0%(GC)
CAS Number:	111-94-4
Synonyms:	Bis(2-cyanoethyl)amine
Chemical Formula:	$C_6H_9N_3$

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 MEASURE	8	
Suitable extinguishing media:	Dry chemical, foam, water in large amounts, 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: 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 M	FASURES	
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. s: Prevent product from entering drains. 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	
up:	material should be promptly disposed of, in accordance with appropriate laws and regulations.	
7. HANDLING AND STORAGE Handling		
Technical measures: Advice on safe handling:	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. Avoid contact with skin, eyes and clothing.	
Storage	Avoid contact with skin, eyes and clothing.	
Storage conditions:	Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Protect from moisture. Store locked up.	
Packaging material:	Store away from incompatible materials such as oxidizing agents. Law is followed.	
8. EXPOSURE CONTROLS / PERSONAL PROTECTION		
8. EXPOSORE CONTROLS / P 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 equipr	nent	

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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 - Slightly pale yellow
Odor:	No data available
pH:	No data available
Melting point/freezing poin	t:No data available
Boiling Point/Range:	205 °C/3.3kPa
Flash Point:	178°C
Explosive limits	
Lower:	No data available
Upper:	No data available
Vapor Pressure:	0.13kPa/140°C
Vapor Density:	4.2
Density:	1.03
Solubility:	Soluble in : Water
-	Benzene Acetone Ethanol

10. STABILITY AND REACTIVITY

Stability:	Stable under proper conditions.
Reactivity:	No special reactivity has been reported.
Conditions to avoid:	Moisture-sensitive
Incompartible materials:	oxidizing agents
Hazardous Decomposition	Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx)
Products:	

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	ipr-mus LD50:200 mg/kg orl-rat LD50:2700 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:	UG2975000

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	1 - 3% (by BOD)
Bioaccumulative	0.2 - 0.4 (conc. 1 mg/L), <1.2 (conc. 0.1 mg/L)
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.

The list of a dangerous chemical(2002)/CN-No.: 61632

16. OTHER INFORMATION

The reference company name of written contentsCompany:TCI (Shanghai) DEVELOPMENT CO., LTD.Address:No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 ChinaDepartment:R&D (Information Management) DepartmentTelephone:+86-(0)21-67121388*461Fax:+86-(0)21-67121385

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