TCI (Shanghai) DEVELOPMENT CO., LTD.

cis-Decahydronaphthalene

Revision number: 1

Revision date: 11/30/2010

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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: cis-Decahydronaphthalene D0009 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 (Inhalation) Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity - Single exposure [Category 2]

Aspiration hazard ENVIRONMENTAL HAZARDS Acute aquatic toxicity Chronic aquatic toxicity GHS label elements Pictograms or hazard symbols



Signal word Hazard statement



Category 3

Category 3 Category 1C Category 1 central nervous system

Category 1

Category 1 Category 1



Danger Flammable liquid and vapour May be harmful if swallowed Toxic if inhaled Causes severe skin burns and eye damage May cause damage to organs : central nervous system May be fatal if swallowed and enters airways Very toxic to aquatic life Very toxic to aquatic life

**Precautionary statements** 

2. HAZARDS IDENTIFICATION	
[Prevention]	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.
	Do not breathe.
	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.
[Beenenee]	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. Call a POISON CENTER or doctor/physician.
	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. 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.
	Collect spillage.
[Storage]	Store in a well-ventilated place. Keep container tightly closed.
	Store locked up.
[Disposal]	Dispose of contents/container through a waste management company authorized by
	the local government
Other hazards which do not	May form explosive peroxides.

#### result in classification

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Component(s):	cis-Decahydronaphthalene
Percent:	>98.0%(GC)
CAS Number:	493-01-6
Synonyms:	cis-Decalin
Chemical Formula:	$C_{10}H_{18}$

# 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	Dry chemical, foam, carbon dioxide.
media:	
Extinguishing media not to	Water (It may scatter and spread fire.)
be used:	

#### **5. FIRE-FIGHTING MEASURES**

Specific methods: Special protective equipment for firefighters:	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. When extinguishing fire, be sure to wear personal protective equipment.
6. ACCIDENTAL RELEASE M	EASURES
Personal precautions, protective equipment and emergency procedures: Environmental precaution	Use extra personal protective equipment (self-contained breathing apparatus). 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. <b>s:</b> Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.
Methods and materials for containment and cleaning up:	
Prevention of secondary hazards:	Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.
7. HANDLING AND STORAGE Handling	
Technical measures:	<ul> <li>Handling is performed in a well ventilated place. Wear suitable protective equipment.</li> <li>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.</li> <li>Use a closed system if possible. Use a ventilation, local exhaust if vapor or aerosol will be generated.</li> </ul>
Advice on safe handling:	Avoid contact with skin, eyes and clothing. Confirm in advance if peroxides exist when operations involving heating such as distillation are carried out.
Storage	
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.
Packaging material:	Law is followed.
8. EXPOSURE CONTROLS / F	PERSONAL PROTECTION
Engineering controls: Personal protective equip	Install a closed system or local exhaust. Also install safety shower and eye bath.
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 - Almost colorless
Odor:	No data available
pH:	No data available
Melting point/freezing point	:No data available
Boiling Point/Range:	193 °C

9. PHYSICAL AND CHEMICAL	
Flash Point: Explosive limits	58°C
Lower:	0.7%
Upper:	4.9%
Density:	0.90
Solubility:	No data available
Autoignition Temperature:	250°C
10. STABILITY AND REACTIVI	тү
Stability:	May form explosive peroxides.
Reactivity:	No special reactivity has been reported.
Incompartible materials:	oxidizing agents
Hazardous Decomposition	Carbon monoxide, Carbon dioxide
Products:	
11. TOXICOLOGICAL INFORM	ATION
Acute Toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye	No data available
damage/irritation:	Na data available
Germ cell mutagenicity: Carcinogenicity:	No data available
IARC =	No doto ovoilabla
NTP =	No data available No data available
Reproductive toxicity:	No data available
12. ECOLOGICAL INFORMATIC	N
Ecotoxicity: Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	
Bioaccumulative	839 - 2380 (conc. 2.1 ug/L), 1290 - 2400 (conc. 0.21 ug/L)
potential(BCF):	
Mobillity in soil	
log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law	No data available

#### **13. DISPOSAL CONSIDERATIONS**

constant(PaM<sup>3</sup>/mol):

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:	3: Flammable liquid.
UN-No:	1147
Proper shipping name:	Decahydronaphthalene
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
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