TCI (Shanghai) DEVELOPMENT CO., LTD.

cis-Decahydronaphthalene

Revision number: 1

Revision date: 11/30/2010

Page 1 of 5

Revision date: 11/30/2010

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. s: 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:	 Handling is performed in a well ventilated place. Wear suitable protective equipment. 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. 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. 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(PaM³/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
Department:	R&D (Information Management) Department
Telephone:	+86-(0)21-67121388*461
Fax:	+86-(0)21-67121385

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.