



TCI (Shanghai) DEVELOPMENT CO., LTD.

Revision number: 1

Revision date: 09/06/2019

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: 1,2,3,4-Tetrahydronaphthalene [for Spectrophotometry]
Product code: T0713
Company: TCI (Shanghai) DEVELOPMENT CO., LTD.
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Revision number: 1

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

Flammable liquids Category 4

HEALTH HAZARDS

Acute toxicity (Oral) Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity
- Single exposure [Category 3] Narcotic effects
Specific target organ toxicity
- Repeated exposure [Category 2] Blood
Aspiration hazard Category 1

ENVIRONMENTAL HAZARDS

Acute aquatic hazard Category 2
Long-term aquatic hazard Category 2

Label elements

Pictograms or hazard symbols



Signal word

Hazard statements

Danger
Combustible liquid
Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
May cause damage to organs through prolonged or repeated exposure : Blood
May cause drowsiness or dizziness
May be fatal if swallowed and enters airways
Toxic to aquatic life
Toxic to aquatic life with long lasting effects

Precautionary statements
[Prevention]

Keep away from flames and hot surfaces. – No smoking.
Do not breathe mist, vapors or spray.
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 and face thoroughly after handling.

Wear protective gloves, eye protection.

[Response]

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Rinse mouth.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

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 or attention.

Get medical advice or attention if you feel unwell.

In case of fire: Use dry chemical, dry sand or foam to extinguish.

Collect spillage.

[Storage]

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

[Disposal]

Dispose of contents and container in accordance with local, regional, national regulations.

Other hazards which do not result in classification

May form explosive peroxides.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| | |
|---------------------------|---|
| Substance/mixture: | Substance |
| Components: | 1,2,3,4-Tetrahydronaphthalene [for Spectrophotometry] |
| Percent: | >98.0%(GC) |
| CAS RN: | 119-64-2 |
| Chemical Formula: | C ₁₀ H ₁₂ |

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: | 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

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| Suitable extinguishing media: | Dry chemical, foam, carbon dioxide. |
| Unsuitable extinguishing media: | Water (It may scatter and spread fire.) |
| Precautions 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: 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 MEASURES

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| 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. |
| Environmental precautions: | 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: | 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 material should be promptly disposed of, in accordance with appropriate laws and regulations. |
| 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

Precautions for safe handling

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| Technical measures: | Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from flames and hot surfaces. 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 vapour 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. |

Conditions for safe storage, including any incompatibilities

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| 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: | Comply with laws. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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| Engineering controls: | Install a closed system or local exhaust. Also install safety shower and eye bath. |
| Personal protective equipment | |
| 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

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|-----------------------------------|---|
| Physical state (20°C): | Liquid |
| Form: | Clear |
| Colour: | Colorless |
| Odour: | Menthol-like |
| pH: | No data available |
| Melting point/freezing point: | No data available |
| Boiling point/range: | 207°C |
| Flash point: | 75°C |
| Flammability or explosive limits: | |
| Lower: | 0.8% |
| Upper: | 5% |
| Vapour pressure: | 49.1Pa/25°C |
| Vapour density: | 4.6 |
| Relative density: | 0.97 |
| Solubility(ies): | |
| [Water] | Insoluble (47mg/L, 28°C) |
| [Other solvents] | |
| Miscible: | Ether, Benzene, Acetone, Chloroform, Ethanol, Butanol |
| Soluble: | Methanol, Aniline |
| Log Pow: | 3.49 |
| Autoignition temperature: | 385°C |

10. STABILITY AND REACTIVITY

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| Chemical stability: | May form explosive peroxides. |
| Possibility of hazardous reactions: | No special reactivity has been reported. |
| Conditions to avoid: | Open flame, Air |
| Incompatible materials: | Oxidizing agents |
| Hazardous decomposition products: | Carbon dioxide, Carbon monoxide |

11. TOXICOLOGICAL INFORMATION

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| Acute Toxicity: | ihl-gpg LC50:275 ppm ihl-hmn TClO:1 g/m ³ /1M orl-rat LD50:1620 uL/kg skn-rbt LD50:17300 uL/kg |
| Skin corrosion/irritation: | skn-rbt 500 mg open SEV skn-hmn 2.5 %/24H |
| Serious eye damage/irritation: | No data available |
| Germ cell mutagenicity: | No data available |
| Carcinogenicity: | |
| IARC = | No data available |
| NTP = | No data available |
| Reproductive toxicity: | No data available |
| RTECS Number: | QK3850000 |

12. ECOLOGICAL INFORMATION

Ecotoxicity:

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|---|--|
| Fish: | 48h LC50:6.9 ppm (Oryzias latipes) |
| Crustacea: | No data available |
| Algae: | No data available |
| Persistence / degradability: | 0% (by BOD) , 2.7% (by GC) |
| Bioaccumulative potential(BCF): | 118 - 237 (conc. 0.3 ppm) , 147 - 536 (conc. 0.03 ppm) |
| Mobility in soil | |
| Log Pow: | 3.49 |
| Soil adsorption (Koc): | 1800 |
| Henry's Law (PaM³/mol): | 1.7 x 10 ² |

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

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|------------------------------|---|
| Hazards Class: | 9: Miscellaneous dangerous goods. |
| UN-No: | 3082 |
| Proper shipping name: | Environmentally hazardous substance, liquid, n.o.s. |
| Packing group: | III |
| Marine pollutant | Y |

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): 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

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|-----------------------------|--|
| Company: | TCI (Shanghai) DEVELOPMENT CO., LTD. |
| Address: | No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China |
| Department: | Technical Information Department |
| Emergency telephone: | 0532-83889090 |
| Fax: | +86-(0)21-67121385 |

This SDS 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. The 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.