

TCI (Shanghai) DEVELOPMENT CO., LTD.

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Dodecane [Standard Material for GC]

Product code: S0284

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 HEALTH HAZARDS

Category 4

Aspiration hazard

Category 1
Not classified

ENVIRONMENTAL HAZARDS

Label elements

Pictograms or hazard symbols



Signal word Danger

Hazard statements Combustible liquid

May be fatal if swallowed and enters airways

Precautionary statements

[Prevention] Keep away from flames and hot surfaces. – No smoking.

Wear protective gloves, eye protection.

[Response] IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce

vomiting.

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

[Storage] Store in a well-ventilated place. Keep cool.

Store locked up.

[Disposal] Dispose of contents and container in accordance with local, regional, national

regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: Dodecane [Standard Material for GC]

 Percent:
 >99.5%(GC)

 CAS RN:
 112-40-3

 Chemical Formula:
 C12H26

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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.

Remove/Take off immediately all contaminated clothing. Rinse skin with Skin contact:

water/shower. If skin irritation or rash occurs: Get medical advice/attention.

Rinse cautiously with water for several minutes. Remove contact lenses, if present Eye contact:

and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT Ingestion:

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

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 When extinguishing fire, be sure to wear personal protective equipment

for firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be

Use personal protective equipment. Keep people away from and upwind of

controlled around the leakage area by roping off, etc.

Environmental precautions:

Prevent product from entering drains.

Methods and materials for containment and cleaning

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:

up:

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

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.

Avoid contact with skin, eyes and clothing. Advice on safe handling:

Conditions for safe storage, including any

incompatibilities

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

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

Physical state (20°C): Liquid
Form: Clear
Colour: Colorless

Odour: No data available PH: No data available

Melting point/freezing point: -12°C Boiling point/range: 216°C Flash point: 82°C

Flammability or explosive

limits:

Lower: 0.6%

Upper:No data availableVapour pressure:18.0Pa/25°C

Vapour density: 5.9 Relative density: 0.75

Solubility(ies):

[Water] Insoluble (0.0037mg/L, 25°C)

[Other solvents]

Very soluble: Ether, Acetone, Chloroform, Ethanol, Carbon tetrachloride

Autoignition temperature: 200°C

10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous

reactions:

No special reactivity has been reported.

Conditions to avoid: Open flame Incompatible materials: Oxidizing agents

Hazardous decomposition Carbon dioxide, Carbon monoxide

products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: ihl-rat LC50:>142 ppm/8H

ivn-mus LDLo:2672 mg/kg

Skin corrosion/irritation: No data available
Serious eye No data available

damage/irritation:

Germ cell mutagenicity: No data available

Carcinogenicity: skn-mus TDLo:11 g/kg/22W-I

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available
RTECS Number: JR2125000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:

Crustacea:

Algae:

Persistence / degradability:

No data available
No data available
No data available
No data available

Bioaccumulative 6.8 - 20.4

potential(BCF): Mobility in soil

Log Pow: No data available

Soil adsorption (Koc): 95000 Henry's Law (PaM ³/mol): 8 x 10⁵

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 Nations

UN-No: Not listed

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

Company: TCI (Shanghai) DEVELOPMENT CO., LTD.

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

Department: Technical Information Department

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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.