Safety Data Sheet

1. Identification of the chemical and supplier

1.1 Product identifier

Product Name: Dodecane C12

CAS Number: 112-40-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Please consult manufacturer.
Uses advised against: Please consult manufacturer.

1.3 Details of the supplier of the Safety Data Sheet

Name of the company: Chang Zhou Qi Di Chemical Co., Ltd

Address of the company: No. 128-1-16 Huayuan Street, Hutang Town, Wujin District,

Chang Zhou City, Jiang Su Province, P. R. China

Telephone number: +86 (519) 83382137 **Fax number:** +86 (519) 86316850

Zip code: 213161

1.4 Emergency phone number: +86 (519) 83382137

2. Hazards identification

2.1 Hazard classification according to GHS:

The product is not dangerous and it has no hazardous classification.

2.2 Label elements

Hazard pictograms: None.

Signal word: None.

2.3 Hazard statements:

None.

2.4 Precautionary statements

2.4.1 Prevention

None.

2.4.2 Response

None.

2.4.3 Storage

None.

2.4.4 Disposal

None.

2.5 Hazard description

2.5.1 Physical and chemical hazards

This product is normally used without hazard.

2.5.2 Health hazards

None.

2.5.3 Environmental hazards

Please refer to 12th chapter of SDS.

3. Composition/information on ingredients

Substance ✓ Prepation □		
Component	CAS No.	Concentration(%)
Dodecane	112-40-3	98.5

4. First aid measures

4.1 Description of first aid measures

General advice:Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

Skin contact: Wash off with plenty of water, take off contaminated clothing and shoes immediately.

Eye contact: Wash with running water or saline, Seek medical attention if necessary.

Inhalation: Move to fresh air, Keep the airway open, Seek medical attention if you feel unwell.

Intake: Clean up the mouth, induce vomiting, seek medical attention.

Protecting of first-aiders:Ensure that medical personnel are aware of the substance involve d. Take precautions to protect themselves and prevent spread of contamination.

4.2 Indication of any immediate medical attention and special treatment needed

- 1. Treat symptomatically.
- 2. Symptoms may be delayed.

5. Firefighting measures

5.1 Extinguishing media

- 1. Suitable extinguishing media: Misty water, alcohol-resistant foam, dry powder, carbon dioxide, sand.
- **2.** Unsuitable extinguishing media:Do not use a solid water stream as it may scatter or spread fire.

5.2 Specific hazards arising from the substance or mixture

1. No data available.

5.3 Advice for firefighters

- 1. As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
 - 2. Fight fire from a safe distance, with adequate cover.
- 3. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- 1. Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
- 2. Ensure adequate ventilation. Remove all sources of ignition.
- 3. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 4. Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

6.2 Environmental precautions

1. Prevent further leakage or spillage if safe to do so.

2. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

- 1 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
 - 2. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

7.1 Precautions for handling

- 1. Closed operation, full ventilation.
- 2. Operators must be specially trained to strictly abide by the operating procedures.
- 3. It is recommended that operators wear self-priming filter dust masks and chemical safety glasses.
 - 4. Keep away from fire, heat, and smoking in the workplace.
 - 5. Use explosion-proof ventilation systems and equipment.
 - 6. Avoid contact with oxidizing agents, reducing agents, and halogens.
 - 7. Equipped with the corresponding variety and quantity of fire-fighting equipment.

7.2 Precautions for storage

- 1. Store in a cool, ventilated warehouse.
- 2. Keep away from fire and heat.
- 3. It should be stored separately from oxidants, reducing agents, halogens, etc., and should not be mixed.
 - 4. Use explosion-proof lighting and ventilation facilities.
 - 5. It is forbidden to use mechanical equipment and tools that are prone to sparks.
- 6. The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials.

8. Exposure controls/personal protection

8.1 Control Parameters

8.1.1 Occupational exposure limits

Occupational Exposure limit values

Component	Country/Dogian	Limit value	e - Eight hours	Limit value - Short term		
	Country/Region	ppm	mg/m ³	ppm	mg/m ³	
	USA - OSHA	Unspecified	Unspecified	Unspecified	Unspecified	
	South Korea	Unspecified	Unspecified	Unspecified	Unspecified	
All sammananta	Ireland	Unspecified	Unspecified	Unspecified	Unspecified	
All components	Germany(AGS)	Unspecified	Unspecified	Unspecified	Unspecified	
	Denmark	Unspecified	Unspecified	Unspecified	Unspecified	
	Australia	Unspecified	Unspecified	Unspecified	Unspecified	

8.1.2 Biological limit values

Biological limit values: No information available

8.1.3 Monitoring methods

1. EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

 $2 \times BZ/T$ 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard) .

8.2 Engineering controls

- 1. Ensure adequate ventilation, especially in confined areas.
- 2. Ensure that eyewash stations and safety showers are close to the workstation location.
- 3. Use explosion-proof electrical/ventilating/lighting/equipment.
- 4. Set up emergency exit and necessary risk-elimination area.

8.3 Personal protection equipment

General requirement:













Eye protection: Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

Hand protection: Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.

Respiratory protection:If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full- face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Skin and body protection: Wear fire/flame resistant/retardant clothing and antistatic boots.

Other protection:Smoking, eating and drinking are forbidden on the job site. Maintain good hygiene habits.

9. Physical and chemical properties

Appearance:Colorless transparent liquid.

Odor: Weak odor.

Odor threshold: No data available.

PH value: No data available.

Melting point/freezing point (°C):-10.

Initial boiling point and boiling range (°C):213.

Flash point (closed cup, °C):71.11.

Evaporation rate: No data available.

Flammability (solid or gas): No data available.

Explosion upper/lower limit [%(v/v)]: No data available.

Vapor pressure (kPa) : No data available.

Vapor density (air = 1): No data available.

Relative density (water = 1): 0.749.

Solubility (mg/L): No data available.

Octanol/water partition coefficient: No data available.

Auto-ignition temperature (°C) :No data available.

Decomposition temperature (°C): No data available.

Viscosity: No data available.

Others:Resistance value:No data available.

10, Stability and Reactivity

Reactivity:Contact with incompatible materials can cause decomposition or other chemical reactions.

Chemical stability: Stable under the correct conditions of use and storage.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Electrostatic discharge, heat, humidity, etc.

Incompatible materials: Strong oxides, strong acids, strong bases.

Hazardous decomposition products:Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

11.1 Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (Transcutaneous)	LC ₅₀ (inhalation, 4h)
All components	Not available	Not available	Not available

11.2 Carcinogenicity

Component	IARC	NTP
All components	Not Listed	Not Listed

11.3 Others

Component	Corro sive skin/ irritat ion	Serio us eye dama ge/irri tation	Skin sensiti zation	Respi ratory sensiti zation	Repro ductiv e toxicit y	Specif ic target organ toxicit y- single expos ure	Specif ic target organ toxicit y- repeat ed expos ure	Aspir ation hazar d	Germ cell muta genici ty	Repro ductiv e toxicit y
All	Not	Not	Not	Not	Not	Not	Not	Not	Not	Not
comp	availa	availa	availa	availa	availa	availa	availa	availa	availa	availa
1	ble	ble	ble	ble	ble	ble	ble	ble	ble	ble

12. Ecological information

12.1 Acute aquatic toxicity

Component Fish		Algae		
Not available	Not available	Not available		

12.2 Chronic aquatic toxicity

Component Fish		Crustaceans	Algae		
All components	Not available	Not available	Not available		

12.3 Others

Component	Persistence and Bioaccumulatio		Soil mobility	Evaluation of	
Component	degradability	n or	Son modifity	PBT	

		bioaccumulation		and vPvB results
All components	Not available	Not available	Not available	Not available

13. Disposal considerations

Disposal considerations:Recycle as much as possible.If it cannot be recycled, use incineration for disposal.Do not dispose of this product by means of discharge to the sewer.

Waste chemicals:Contaminated packaging: Residual hazards may still exist after the contents of the packaging are emptied. Keep away from heat and sources of ignition. If possible, recycle them to the supplier for recycling.

Disposal considerations: Refer to the "Disposal" section.

14. Transportation information

United Nations Dangerous Goods Number (UN No.): The product is not dangerous.

UN proper shipping name: None UN Risk Classification: None Packing Category: None Packaging label: None

Marine Pollutants (Yes/No):No

Packing method: Pack according to the manufacturer's recommendations.

Transportation Note:

It is strictly prohibited to mix and transport with acids, alkalis, oxidants, foods and food additives. The exhaust pipe of the vehicle carrying this item must be equipped with a fire-retardant device, which prohibits the use of mechanical equipment and tools that generate sparks. Avoid exposure, rain, and high temperature during transportation. The tank (tank) used for transportation shall have a grounding chain, and a hole partition may be arranged in the tank to reduce the static electricity generated by the vibration.

It is strictly prohibited to mix and transport with oxidants, acids, foods and food additives. It is strictly forbidden to use wooden boats and cement ships for bulk transportation. Avoid exposure, rain, and high temperature during transportation. Transportation vehicles shall be equipped with fire fighting equipment and emergency response treatment equipment of corresponding types and quantities. Before shipping, check whether the packaging container is complete and sealed. On the transportation means, hazard signs and announcements should be posted in accordance with the relevant transportation requirements.

15. Regulatory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECL	AICS	
Dodecane	Listed								

【EINECS 】 European Inventory of Existing Commercial Chemical Substances

【TSCA】 United States Toxic Substances Control Act Inventory

【DSL】 Canadian Domestic Substances List

【IECSC】 China Inventory of Existing Chemical Substances

[NZIoC] New Zealand Inventory of Chemicals

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances

【KECL】 Korea Existing Chemical List

【AICS】 Australia Inventory of Chemical Substances

16. Others

16.1 Reference:

- [1] IPCS:The International Chemical Safety Cards (ICSC), website: http://www.ilo.org
- [2] IARC, website: http://www.iarc.fr
- 【3】OECD:The Global Portal to Information on Chemical Substances, website:http://www.echemportal.org
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov
- [5] NLM:ChemIDplus,website:http://chem.sis.nlm.nih.gov
- [6] EPA:Integrated Risk Information System, website: http://cfpub.epa.gov
- [7] U.S. Department of Transportation:ERG, website: http://www.phmsa.dot.gov
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de

16.2 Others:

1. Abbreviations and acronyms

CAS-Chemical Abstracts Service

PC-STEL- Short term exposure limit

DNEL-Derived No Effect Level

RPE-Respiratory Protective Equipment

LC50-Lethal Concentration 50%

NOEC-No Observed Effect Concentration

PBT-Persistent, Bioaccumulative, Toxic

BCF-Bioconcentration factor (BCF)

IMDG-International Maritime Dangerous Goods

UN-The United Nations

NFPA-National Fire Protection Association

CMR-Carcinogens, mutagens or substances toxic to reproduction

PC-TWA -Time Weighted Average

IARC-International Agency for Research on Cancer

PNEC-Predicted No Effect Concentration

LD50-Lethal Dose 50%

EC50-Effective Concentration 50%

POW-Partition coefficient Octanol:Water

vPvB-very Persistent, very Bioaccumulative

ICAO/IATA-InternationalCivil Aviation Organization/International Air Transportation

Association

ACGIH-American Conference of Governmental Industrial Hygienists

OECD-Organization for Economic Co-operation and Development

2. Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 8th revised edition).

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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