Golden Time Chemical (Jiangsu) Co., Ltd

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Safety Data Sheet

According to GHS rev. 9

Dicyclohexylamine

Version 1.0
Issue date: 01/01/2023
Revision date: 01/01/2023 **SDS Record Number: CSSS-TCO-010-124477**

1.Chemical Product and Company Identification

1.1 Product identifier

Chemical name:	Dicyclohexylamine
Additional identification:	Not available
Identification of the product:	See section 3

1.2 Relevant identified uses of the substance and uses advised against

1.2.1 Identified uses:	Not available.
1.2.2 Uses advised against:	Not available.

1.3 Details of the supplier of the safety data sheet

Supplier(Manufacturer):	Golden Time Chemical (Jiangsu) Co., Ltd
Address:	No. 88, Panyao Road, Nanjing Chemical Industry Park, Jiangsu, China
Contact person(E-mail):	-
Telephone:	+86-25-58393388
Fax:	+86-25-57117388
1.4 Emergency telephone Number(24h):	+86-25-58393388

2. Hazards Identification

Emergency Overview: Colourless liquid. Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects.

2.1 Classification of the substance/mixture

2.1.1 GHS Classification:

Physical hazards	Not classified	
Health hazards	Skin corrosion/irritation	Category1
	Eye damage/irritation	Category 1
	Acute toxicity - Skin	Category 3
	Acute toxicity - Oral	Category 3
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1

2.2 Label elements

Symbols:

Signal Word(S): Danger

Hazard Statement: Causes severe skin burns and eye damage.
Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention:	Do not breathe dusts or mists. Wash hands thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse. Collect spillage.
Storage:	Store locked up.
Disposal:	Dispose of contents/container in accordance with local regulation.
Physical and chemical hazards:	Potential carbon monoxide and nitrogen oxides releasing. Toxic and explosive mixtures formation.
Health Hazards:	Causes severe skin burns and eye damage.
Environmental hazards:	Very toxic to aquatic life with long lasting effects.

3. Composition Information on Ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	CAS No.	Concentration (%)
Dicyclohexylamine	101-83-7	99.5%
Moisture content	7732-18-5	0.1%
Low-boiling residues	1821-36-9	0.4%

4. First Aid Measures

4.1 Description of first aid measures

In case of inhalation:	Bring a person to fresh air, release the clothing. Provide the breathing support. Call a doctor!
In case of skin contact:	Put off immediately the affected clothes, wash out the affected skin with a lot of water and call a doctor!
In case of eyes contact:	Wash out by a lot of water for 15 minutes as soon as possible and as well as possible and call immediately a doctor!
In case of ingestion:	Do not induce vomiting. Give water to drink, provided the patient in conscious, obtain medical attention immediately.
4.2 Most important symptoms and effects, both acute and delayed:	Causes severe skin burns and eye damage.
4.3 To protect playing rescuer advice and the special hints to the doctor:	Ensure that medical personnel are aware of the material(s)involved, and take precautions to protect themselves.
4.4 Indication of any immediate medical attention and special treatment needed:	Provide general supportive measures and treat symptomatically.

5. Fire-fighting Measures

5.1 Suitable extinguishing media:	Smashed water, powder, foam, CO_2.
Unsuitable extinguishing media:	Not available.
5.2 Special hazards arising from the chemical:	Potential carbon monoxide and nitrogen oxides releasing. Toxic and explosive mixtures formation.
5.3 Special fire fighting methods and special protective actions for fire-fighters:	Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid release to the environment.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:	Protection of airways, of unprevented body parts, protection of eyes. Proper ventilation should be provided.
6.2 Environmental precautions:	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.
6.3 Methods and materials for containment and cleaning up:	Fill with suction material (Vapex, Vermikulit) and remove in the waste bin, other disposal see Par. 13.
6.4 Precautions to prevent the occurrence of secondary hazards:	Clean up spills immediately to prevent leaks again.

7. Handling and Storage

7.1 Safe handling

Technical measures:	No specific recommendations.
Local and general ventilation:	Provide adequate ventilation.
Precautions:	Put on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
Safe handling advice:	Use personal protection recommended in Section 8 of the SDS.

7.2 Storage

Technical measures:	No specific recommendations.
Suitable storage conditions:	It should be stored in ventilable rooms in original packaging or steel containers, the upper permissible storage temperature limit is 40 °C. It should be not stored together with foods and strong oxidation agents.
Incompatible materials:	Strong oxidation agents.
Safe packaging materials:	Keep it in the original container.

8. Exposure Controls / Personal Protection

8.1 Control parameters

8.1.1 Occupational exposure limits:	Not available
8.1.2 Engineering controls:	No specific recommendations.

8.2 Personal protection equipment

Respiratory protection:	Protective mask with a filter against organic foams of the A-type.
Hand protection:	Protective glove.
Eye protection:	Goggles or shield.
Skin and body protection:	Protective clothing.
Hygiene measures:	Do not get in eyes. Wash hands before breaks and immediately after handling the

product.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state:	Liquid
Form:	Liquid
Color:	Colourless
Odor:	Not available
pH:	11 (1 g/l at 20 °C)
Melting point/freezing point:	-0.1 °C
Boiling point, initial boiling point, and boiling range:	253.8 °C
Flash point:	105°C (open cup)
Auto-ignition temperature:	255°C
Flammability limit - lower (%):	0.9
Flammability limit - upper (%):	6.9
Explosive limit - lower (%):	Not available
Explosive limit - upper (%):	Not available
Vapor pressure (25°C):	7.5207 Pa
Vapor density:	7.26
Relative density:	0.9104 (25 °C)
Solubility:	0.8 g/L (25 °C)
Partition coefficient (n-octanol/water):	2.724 (25 °C)
Decomposition temperature:	Not available
Molecular Formula:	$C_{12}H_{23}N$
Molecular Weight:	181.32

9.2 Other data

Solubility (other):	Not available
Odour threshold:	Not available
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Explosive properties:	Not available
Oxidising properties:	Not available
Viscosity:	Not available
Surface tension:	Not available
Dissociation constant in water(pKa):	10.39

10. Stability and Reactivity

10.1 Stability:	Material is stable under normal conditions.
10.2 Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
10.3 Conditions to avoid:	Incompatible materials. Heat.
10.4 Incompatible materials:	Strong oxidation agents.
10.5 Hazardous decomposition products:	Toxic carbon monoxide and nitrogen oxides can be released in burning.

11. Toxicological Information

11.1 Toxicokinetics, metabolism and distribution: Not available.

11.2 Information on toxicological effects

Acute toxicity:

LD50(Oral, Rat):	Not available
LD50(Dermal, Rabbit):	Not available
LC50(Inhalation, Rat):	> 1.4 mg/L air 6h (male)
Skin corrosion/Irritation:	Causes severe skin burns and eye damage.
Serious eye damage/irritation:	Causes serious eye damage.
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

12.Ecological Information

12.1 Toxicity:

Fish	LC50(96h): 62 mg/L
Daphnia	EC50(48h): 8 mg/L
Algae	EC50(72h): 0.38 mg/L
12.2 Persistence and degradability:	Readily biodegradable.
12.3 Bioaccumulative potential:	Not available.
12.4 Mobility in soil:	Not available.
12.5 Other hazardous effects:	Very toxic to aquatic life with long lasting effects.

13. Disposal Considerations

13.1 Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
13.2 Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
13.3 Local disposal regulations	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport Information

UN-Number:	2565
UN Proper shipping name:	DICYCLOHEXYLAMINE
Transport hazard Class:	8
Packaging group:	III

Environmental hazards(Yes/No):	Yes
Special precautions for user:	See section 2.2

Transport special precautions:

- **Grounding chains should be equipped with tank or car during transportation, hole plate can be set in the tank to prevent static electricity generated by shaking;**
- **Exhaust pipe of the vehicle which transports this product shall be equipped with fireproofing equipment, Do not handle with the machinery or tools which may produce spark easily;**
- **Do not package or transport with oxidant, food chemicals or others;**
- **Prevent from sunlight exposure, rain and heat during transportation, in summer, best to transport in the morning or evening;**
- **Keep away from fire, heat source and high temperature when stops on the way;**
- **Follow the route as prescribed during highway transportation, do not stay in residential areas and densely populated area;**
- **Prohibit humping in railway transportation;**
- **Transport vehicles should be equipped with corresponding fire equipment and spill contingency processing equipment.**

15.Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations names	**information**	
Regulations on the safety administration of dangerous chemicals	Catalog of Hazardous Chemicals	Listed
	List of Hazardous Chemicals for Priority Management	Not listed
Regulations on the environmental management of first import of toxic chemicals	List of Toxic Chemicals Restricted to be Imported/Exported	Not listed
Measures for environmental management of new chemical substances	Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)	Listed

15.2 Note for downstream users:

Disposal of products/containers according to local regulations.

16. Other Information

16.1 Indication of changes

Version 1.0　Amended by GB/T16483-2008 and GB/T17519-2013.

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

16.5 Abbreviations:

ADR:《European Agreement Concerning the International Carriage of Dangerous Goods by Road》

IMDG: International Maritime Dangerous Goods

EINECS: European Inventory of Existing commercial Chemical Substances

IATA: International Air Transport Association
ICAO-TI: International Civil Aviation Organization《The International Civil Aviation Covenant》(ICAO)
CAS: Chemical Abstracts Service
LC50: Lethal Concentration 50
EC50: Concentration for 50% of maximal effect
LD50: Lethal dose 50%
RID：Regulations Concerning the International Transport of Dangerous Goods by Rail (European law)
This material safety data sheet is compiled based on our best understanding on the safety and correct use of this product. However, we could guarantee neither its timeliness nor the implied or expressed information. For the above contents, our company would not take any liability due to its usage. Users shall identify the best information on each specific use by their survey. Each user should read this specification carefully before use it. If you need further information for a correct assessment, please contact us.
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