



# 安徽华尔泰化工股份有限公司

## ANHUI HUAERTAI CHEMICAL CO., LTD.

地址：安徽省池州市东至县香隅镇

Code: 247260

ADD: Xiangyu Town, Dongzhi County, Chizhou City, Anhui province, P.R.China

TEL: +86 18256607335

E-mail: global@ahhet.com

## SAFETY DATA SHEET

### Section 1 Identification

**Product Name** Dicyclohexylamine

**CAS No** 101-83-7

**Synonyms**

No information available

**Recommended Use**

Laboratory chemicals.

**Uses advised against**

Food, drug, pesticide or biocidal product use.

#### >Details of the Supplier of the Safety Data Sheet

<b>Applicant Name</b>	Anhui Huertai Chemical Co., Ltd.
<b>Applicant Address</b>	Xiangyu Town, Dongzhi County, Anhui Province
<b>Applicant Post Code</b>	247260
<b>Applicant Telephone</b>	05665299018
<b>Applicant Fax</b>	05665299138
<b>Applicant E-mail</b>	alice_ting0820@163.com
<b>Supplier Names</b>	Anhui Huertai Chemical Co., Ltd.
<b>Supplier Address</b>	Xiangyu Town, Dongzhi County, Anhui Province
<b>Supplier Post Code</b>	247260
<b>Supplier Telephone</b>	05665299018
<b>Supplier Fax</b>	05665299138
<b>Supplier E-mail</b>	alice_ting0820@163.com

**Emergency Phone Number** 05665299119

### Section 2 Hazards Identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Category 3

Acute oral toxicity Category 4



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Acute dermal toxicity Category 3

Skin Corrosion/Irritation Category 1 B

Serious Eye Damage/Eye Irritation Category 1

Reproductive Toxicity Category 2

Specific target organ toxicity (single exposure) Category 3

Target Organs - Respiratory system.

### Label Elements

#### Signal Word

Danger

#### Hazard Statements

Flammable liquid and vapor

Harmful if swallowed

Toxic in contact with skin

Causes severe skin burns and eye damage

May cause respiratory irritation

Suspected of damaging fertility



### Precautionary Statements

#### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

#### Response



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Immediately call a POISON CENTER or doctor/physician

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

### Skin

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

### Ingestion

Rinse mouth

Do NOT induce vomiting

### Fire

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

### Storage

Store locked up

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

### Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None identified

## Section 3 Composition/Information on Ingredients

Component	CAS No	Weight %
Dicyclohexylamine	101-83-7	>93

## Section 4 First Aid Measures

### General Advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

### Inhalation



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If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh air. Immediate medical attention is required.

### Ingestion

Do NOT induce vomiting. Call a physician or poison control center immediately.

### Most important symptoms and effects

Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting; Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

### Notes to Physician

Treat symptomatically

## Section 5 Fire Fighting Measures

### Suitable Extinguishing Media

Water mist may be used to cool closed containers. CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

### Unsuitable Extinguishing Media

No information available

**Flash Point** 99°C

**Method -** CC (closed cup)

**Autoignition Temperature** No data available

**Explosion Limits Upper** No data available

**Lower** No data available

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available

### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Thermal decomposition can lead to release of irritating gases and vapors.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.



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### NFPA

Health	Flammability	Instability	Physical hazards
3	3	0	N/A
> P			

## Section 6 Accidental Release Measures

### Personal Precautions

Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges.

### Environmental Precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

### Methods for Containment and Clean Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## Section 7 Handling and Storage

### Handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

### Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Keep away from heat, sparks and flame. Incompatible Materials. Strong oxidizing agents.

## Section 8 Exposure Controls /Personal Protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Cyclohexylamine	TWA: 10 ppm	(Vacated) TWA: 10 ppm (Vacated) TWA: 40 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 40 mg/m <sup>3</sup>	TWA: 10 ppm

### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration



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NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

### Engineering Measures

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment. Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

#### Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tight sealing safety goggles. Face protection shield.

#### Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

## Section 9 Physical and Chemical Properties

Physical State	Liquid
Appearance	Colorless
Odor	Fishy
Odor Threshold	No information available
pH	11.5 100 g/L aq.sol
Melting Point/Range	-17 °C / 1.4 °F
Boiling Point/Range	133 - 134 °C / 271.4 - 273.2 °F
Flash Point	99°C
Method -	CC (closed cup)
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	0.0157mmHg at 25°C



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Vapor Density	No information available
Specific Gravity	0.912g/cm <sup>3</sup>
Solubility	Soluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	2.4 mPa.s @ 20°C
Molecular Formula	C <sub>12</sub> H <sub>23</sub> N
Molecular Weight	181.318

### Section 10 Stability and Reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> ), Thermal decomposition can lead to release of irritating gases and vapors
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

### Section 11 Toxicological information

#### Acute Toxicity

#### Product Information

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cyclohexylamine	LD50 = 432 mg/kg (Rat)	277 mg/kg (Rabbit)	LC50 = 1000 ppm (Rat) 16 h

#### Toxicologically Synergistic

**Products** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

#### Irritation

No information available

**Sensitization** No information available

#### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
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Cyclohexylamine 108-91-8 Not listed Not listed Not listed Not listed Not listed

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

**STOT - single exposure** Respiratory system

**STOT - repeated exposure** None known

**Aspiration hazard** No information available

**Symptoms / effects, both acute and delayed**

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting:

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

## Section 12 Ecological Information

### Ecotoxicity

Do not empty into drains. Contains a substance which is: Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Cyclohexylamine	EC50: = 20 mg/L, 96h (Pseudokirchneriella subcapitata) EC50: = 20 mg/L, 96h static (Pseudokirchneriella subcapitata)	LC50: 44 - 90 mg/L, 96h (Oncorhynchus mykiss) LC50: = 470 mg/L, 96h static (Brachydanio rerio)	EC50 = 120 mg/L 30 min	Not listed

**Persistence and Degradability** Persistence is unlikely

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its water solubility

## Section 13 Disposal Considerations





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### Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

## Section 14 Transport Information

### Transporting Label



Marine pollutant No  
UN Number 2565  
UN Proper Shipping Name DICYCLOHEXYLAMINE  
Transport Hazard Class 8  
Transport Subsidiary Hazard Class /  
Packing Group III

## Section 15 Regulatory Information

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Cyclohexylamine	108-91-8	X	ACTIVE	-

### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export

Not applicable

### International Inventories



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Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Dicyclohexylamine	101-83-7	X	-	202-980-7	X	X	X	X	X	X

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

### U.S. Federal Regulations

#### SARA 313

Not applicable

#### SARA 311/312 Hazard Categories

See section 2 for more information

#### CWA (Clean Water Act)

Not applicable

#### Clean Air Act

Not applicable

#### OSHA - Occupational Safety and

Health Administration

Not applicable

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Dicyclohexylamine	-	-

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know

#### Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Dicyclohexylamine	-	-	-	-	-

### U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

### U.S. Department of Homeland Security



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This product contains the following DHS chemicals:

**Legend** - STQs = Screening Threshold Quantities, APA = A placarded amount

Component	DHS Chemical Facility Anti-Terrorism Standard
Dicyclohexylamine	Release STQs - 15000lb

### Other International Regulations

#### Mexico - Grade

Serious risk, Grade 3

#### Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Dicyclohexylamine	-	Use restricted. See item 75. (see link for restriction details)	-

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Dicyclohexylamine	108-91-8	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Dicyclohexylamine	101-83-7	Not applicable	Not applicable	Not applicable	Not applicable

## Section 16 Additional Information

Creation Date JUN.24,2023

Revision Date JUn.24,2023

Reason for Revision -

### >Disclaimer



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This Safety Data Sheet(SDS) was prepared according to UN GHS (the 9th 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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