

Revision number: 2 Revision date: 04/08/2019

1. IDENTIFICATION

TCI AMERICA SAFETY DATA SHEET

Product name: Product code:	Dicyclohexylamine D0435	
Product use: Restrictions on use:	For laboratory research purposes. Not for drug or household use.	
Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com		Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department: TCI America Environmental Health Safety and Security +1- 503-286-7624
2. HAZARD(S) IDENTIFICATION		
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 3] Acute Toxicity - Dermal [Category 3] Eye Damage/Irritation [Category 1] Toxic to Reproduction [Category 2] Specific Target Organ Toxicity (Repeated Exp Aquatic Hazard (Acute) [Category 1] Aquatic Hazard (Long-Term) [Category 1] Skin Corrosion/Irritation [Category 1B]	osure) [Category 2]
Signal word:	Danger!	
Hazard Statement(s):	Toxic if swallowed or in contact with skin Causes severe skin burns and eye damage Suspected of damaging fertility or the unborn Very toxic to aquatic life Very toxic to aquatic life with long lasting effect May cause damage to organs through prolong	ts
Pictogram(s) or Symbol(s):		
Precautionary Statement(s):	Obtain special instructions before use. Do not	handle until all safety precautions have been read and

Precautionary Statement(s) [Prevention]

[Response]

[Storage] [Disposal] Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, vapors or spray. 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, protective clothing, face protection.

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. 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 or doctor. If exposed or concerned: Get medical advice or attention. Collect spillage. Store locked up.

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified: [HNOC] None.

3. COMPOSITION/INFORMATION ON INGREDIENTS Substance/mixture: Substance Dicyclohexylamine Components: Percent: >99.0%(GC) CAS RN: 101-83-7 Molecular Weight: 181.32 Chemical Formula: C12H23N 4. FIRST-AID MEASURES Description of first aid measures Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Inhalation: POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Skin contact: Immediately call a POISON CENTER or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Eye contact: Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. Symptoms/effects: Acute: Pain. Redness. Delayed: No data available Indication of any immediate medical attention: Not available. Notes to physician: No data available 5. FIRE-FIGHTING MEASURES Suitable extinguishing media: Dry chemical, foam, carbon dioxide. Unsuitable extinguishing media: Water (It may scatter and spread fire.) Specific hazards arising from the Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. chemical: Hazardous combustion products: These products include: Carbon oxides Nitrogen oxides Other specific hazards: Closed containers may explode from heat of a fire. Advice for firefighters: Wear self-contained breathing apparatus if possible. 6. ACCIDENTAL RELEASE MEASURES Personal precautions, protective Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate equipment and emergency procedures: 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 Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large and cleaning up: amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. 7. HANDLING AND STORAGE Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent Precautions for safe handling: generation of vapour or mist. 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 all contact! Conditions for safe storage, including any incompatibilities Keep container tightly closed. Store in a cool and dark place. Storage conditions: Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents. Air-sensitive Packaging material: Comply with laws.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. 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): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Slightly p Amine-like No data available No data available	ale yellow	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity:	0°C (32°F) 256°C (493°F) No data available 0.91 No data available	pH։ Vapour pressure: Vapour density: Dynamic Viscosity:	No data available No data available. 6.25 No data available
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	105°C (221°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	255°C (491°F) 0.9% 6.9%
Solubility(ies): [Water] [Other solvents] Soluble:	Insoluble (0.08g/100 Ether, Alcohols, Benz		

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Incompatible materials: Hazardous decomposition products:

No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents, Strong acids Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx) **TCI AMERICA**

11. TOXICOLOGICAL INFORMATION

RTECS Number: HY4025000

Acute Toxicity: orl-rat LD50:373 mg/kg scu-mus LD50:135 mg/kg	ihl-mus LC50:1 g/m³		
Skin corrosion/irritation: skn-rbt 2 mg/24H SEV			
Serious eye damage/irritation: eye-rbt 750 ug/24H SEV			
Respiratory or skin sensitization: No data available			
Germ cell mutagenicity: cyt-hmn-leu 200 ug/L	dnd-nml 2 mmol/L		
Carcinogenicity: orl-rat TDLo:40 g/kg/52W-I	scu-mus TDLo:2404 mg/kg/48W-I		
IARC: Group 3 (Not classifiable a carcinogenic to humans).	S NTP: No data available	OSHA: No data available	
Reproductive toxicity: No data available			
Target organ(s): May cause damage to organs throug	n prolonged or repeated exposure: Nervous System		
12. ECOLOGICAL INFORMATION			
Ecotoxicity: Fish:	96h LC50:12 mg/L (Oryzias latipes)		
Crustacea:	48h EC50:8.0 mg/L (Daphnia magna)		
Algae:	72h EC50:>19 mg/L (Selenastrum capricornutum)		
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	76.9 % (by BOD) , 88.6 % (by TOC) , 100 % (by GC) 1200)	
Log Pow:	3.5		
Soil adsorption (Koc): Henry's Law (PaM ³ /mol):	260 5.6		
13. DISPOSAL CONSIDERATIONS			
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment drains, water ways, or the soil.		
		ted in 40 CFR Parts 261. The product should not	

14. TRANSPORT INFORMATION

<u>DOT (US)</u> UN number: UN2565	Proper Shipping Name: Dicyclohexylamine	Class or Division: 8 Corrosive material	Packing Group:	
IATA UN number: UN2565	Proper Shipping Name: Dicyclohexylamine	Class or Division: 8 Corrosive material	Packing Group:	
IMDG UN UN2565 numb er:	Proper Shipping Name: Dicyclohexylamine	Class or Division: 8 Corrosive material	Packing Group: III	
EmS number:	F-A, S-B			

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regu	lations			
CERCLA Hazardo	ous substance	and Reportable Quantity:		
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulations	<u>8</u>			
State Right-to-Kn	ow			
Massachuset	ts	Listed		
New Jersey		Listed		
Pennsylvania	1	Listed		
California Proposition 65:		Not Listed		
Other Information	<u>1</u>			
NFPA Rating:			HMIS Classification:	
Health:	3		Health:	;
Flammability:	1		Flammability:	
Instability:	0		Physical:	(
International Inve	entories			
Canada: DSL		On DSL		
EC-No:		202-980-7		

16. OTHER INFORMATION

Revision date: 04/08/2019

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

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