

Revision Date 08/04/2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name : 1.3-Dicyclohexylcarbodiimide (DCC)

Product Number : RC8101

Advanced ChemTech Brand

CAS-No. 538-75-0

Relevant identified uses of the substance or mixture and uses advised against 1.2 Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Advanced ChemTech

5609 Fern Valley Rd, Louisville, KY 40228 USA

Telephone : +1 833-317-5620 : +1 502-968-1000 Fax : +1 800-424-9300 Chemtrec Emergency telephone number

#### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture: 2.1

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H302 Acute toxicity, Oral (Category 4),
H302 Acute toxicity, Inhalation (Category 2),
H330 Acute toxicity, Dermal (Category 3),
H311 Serious eye damage (Category 1), H318

Skin sensitisation (Category 1), H317For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2

1.4

### GHS Label elements, including precautionary statements:

Pictogram



Signal word Danger

Hazard statement(s)

Causes skin irritation. H315 H318 Causes serious eye damage. H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area. P271

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 + P310 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/

P332 + P313 If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. P362 P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC) or not covered by GHS - none 2.3

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

# Substances

3.1

Synonyms : C13H22N2 Formula Molecular Weight : 206.33g/mole CAS-No. : 538-75-0

Hazardous Components

nazaraous components		
Component	Classification	Concentration
1.3-Dicyclohexylcarbodiimide (DCC)		
	Skin Irrit. 2; Eye Dam. 1; STOT SE 3; H315,	<= 100 %
	H318, H335	

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

#### Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Consult a physician. If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.



- If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

  Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the 4.2 labeling (see section 2.2) and/or in section 11
- 4.3 Indication of any immediate medical attention and special treatment needed: No data available

#### 5. FIREFIGHTING MEASURES

- Extinguishing media
  - Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture: Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas
- 5.3 Advice for firefighters: Wear self-contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information: No data available

#### 6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions, protective equipment, and emergency procedure: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- **Environmental precautions:** Do not let product enter drains. 6.2
- 6.3 Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections: For disposal see section 13.

#### 7. HANDLING AND STORAGE

- Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration 7.1 before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section
- Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature -20 °C Moisture sensitive. Store under inert gas. Storage class (TRGS 510): Non Combustible Solids 7.2
- 7.3 Specific end use(s): Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters
  - Components with workplace control parameters: Contains no substances with occupational exposure limit values.
- 8.2 **Exposure controls**

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance Form: White to Off-White powder b) Odor no data available c) Odor Threshold no data available no data available d) pH e) Melting point/freezing point
f) Initial boiling point and boiling range no data available no data availablee g) Flash point no data available h) Evaporation rate no data available i) Flammability (solid, gas)
j) Upper/lower flammability or explosive limits no data available no data available k) Vapor pressure no data available Vapor density
 Relative density no data available no data available n) Water solubility no data available o) Partition coefficient: n- octanol/water no data available p) Auto-ignition temperature no data available q) Decomposition temperature no data available r) Viscosity no data available s) Explosive properties no data available t) Oxidizing properties no data available Other safety information: no data available

### 10. STABILITY AND REACTIVITY

9.2

- Reactivity: No data available 10.1
- 10.2 Chemical stability: Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions: No data available



10.4 Conditions to avoid: No data available

10.5 Incompatible materials: Strong oxidizing agents, Strong acids

10.6 Hazardous decomposition products: Other decomposition products - no data available. In the event of fire: see section 5

#### 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity: No data available Inhalation: No data available Dermal: No data available LD50 Intravenous - Mouse - 56 mg/kg Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

Additional Information: RTECS: FF2200000 To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

#### 12. ECOLOGICAL INFORMATION

12.1 Toxicity: No data available

12.2 Persistence and degradability: No data available

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: No data available

12.5 Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects: No data available

#### 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

DOT (US)

UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solids, organic, n.o.s. (N,N'-dicyclohexylcarbodiimide)

Reportable Quantity (RQ): Poison Inhalation Hazard: No

IMDG

UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (N,N'-

dicyclohexylcarbodiimide)

IAŤA

UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solid, organic, n.o.s. (N,N'-dicyclohexylcarbodiimide)

#### 15. REGULATORY INFORMATION

**SARA 302 Components:** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. **SARA 313 Components:** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: No SARA Hazards

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components

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New Jersey Right to Know Components

1.3-Dicyclohexylcarbodiimide (DCC) CAS-No. Revision Date

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California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### 16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Dam.Serious eye damageH315Causes skin irritation.H318Causes serious eye damage.H335May cause respiratory irritation.

Skin Irrit. Skin irritation

STOT SE Specific target organ toxicity - single exposure

HMIS Rating

Health hazard: 0



Chronic Health Hazard:	0
Flammability:	
Physical Hazard	0
NFPA Rating	
Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Advanced ChemTech shall not be liable for any damage resulting in the handling or from contact with the above product.