

1.4

SAFETY DATA SHEET

Revision Date 08/04/2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name : N,N-Carbonyldiimidazole (CDI)

Product Number · RC8210

Advanced ChemTech Brand

CAS-No. 530-62-1

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

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

HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

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

Acute toxicity, Oral (Category 4), H302 Skin irritation (Category 2), H315 Skin corrosion (Category 1B), H302 Serious eye damage (Category 1), H314 Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

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

GHS Label elements, including precautionary statements: 2.2

Pictogram



Danger

Signal word

Hazard statement(s)

H315 Causes skin irritation. 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.

P271 Use only outdoors or in a well-ventilated area. P280 Wear eye protection/ face protection.

Wear protective gloves.

P280

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

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.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

P305 + P351 + P338 + P310

present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

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

Store locked up P405

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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Synonyms 1,1'-Carbonylbis-1H-imidazole

Formula C7H6N40 Molecular Weight 162.15 g/mole CAS-No. 530-62-1

Hazardous Components

Component	Classification	Concentration
N,N-Carbonyldiimidazole		
	Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1;	90- 100 %
	H302, H314	

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.



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- 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 5.1
 - Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Special hazards arising from the substance or mixture: Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas 5.2
- 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
- 6.2 6.3 Environmental precautions: Do not let product enter drains.
- 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 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. 7.2 Recommended storage temperature -20 °C Moisture sensitive. Store under inert gas. Storage class (TRGS 510): Non Combustible Solids
- 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

- 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).

no data available

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form: Solid - Color: White to beige a) Appearance b) Odor no data available

c) Odor Threshold no data available no data available d) pH

e) Melting point/freezing point Melting point/range: 115 - 125 °C

f) Initial boiling point and boiling range no data available no data available g) Flash point no data available h) Evaporation rate i) Flammability (solid, gas)
j) Upper/lower flammability or explosive limits no data available no data available

k) Vapor pressure no data available I) Vapor densitym) 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

10. STABILITY AND REACTIVITY

9.2

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

Other safety information:



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10.5

Incompatible materials: Strong oxidizing agents, Strong acids

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

11. TOXICOLOGICAL INFORMATION

11.1

Information on toxicological effects
Acute toxicity: LD50 Oral - Rat - 1,071 mg/kg

Inhalation: No data available Dermal: No data available

Skin corrosion/irritation: Rabbit, Corrosive

Serious eye damage/eye irritation: Rabbit, eye irritant

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

Germ cell mutagenicity: No data available

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

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

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

Toxicity: Toxicity to fish LC0 - Leuciscus idus (Golden orfe) - 250 mg/l - 48 h Toxicity to daphnia and other

aquatic invertebrates EC50 - Daphnia (water flea) - 341.5 mg/l - 48 h

12.2 Persistence and degradability: No data available

Bioaccumulative potential: No data available 12.3

12.4 Mobility in soil: No data available

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

12.6 Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

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: 3263 Class: 8 Packing group: II Proper shipping name: Corrosive solid, basic, organic,

n.o.s. (1,1'-Carbonylbis-1H-imidazole)

IMDG UN number: 3263 Class: 8 Packing group: II EMS-No: F-A, S-B Proper shipping name: CORROSIVE

SOLID, BASIC, ORGANIC, N.O.S. (1,1'-Carbonylbis-1H-imidazole)

IATA UN number: 3263 Class: 8 Packing group: II Proper shipping name: Corrosive solid, basic, organic,

n.o.s. (1,1'-Carbonylbis-1H-imidazole)

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 N,N-Carbonyldiimidazole

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New Jersey Right to Know Components

CAS-No. N,N-Carbonyldiimidazole Revision Date

530-62-1

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

Skin Irrit. Skin irritation

STOT SE Specific target organ toxicity - single exposure

HMIS Rating

Health hazard: 3 Chronic Health Hazard: O

Flammability: Physical Hazard NFPA Rating

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Health hazard: 3
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.