

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name **N,N'-Carbonyldiimidazole**
Product Code IL-PCR-CDI
CAS Number 530-62-1
Other Names 1,1'-Carbonylbis-1H-imidazole
1,1'-Carbonyldi(1H-imidazole)
Di(1H-imidazol-1-yl)methanone
1,1'-Carbonyldiimidazole
IUPAC
MFCD Number MFCD00005286
EC/EINECS 208-488-9
REACH Number

Index-No

2. Relevant identified uses of the substance or mixture and uses advised against

Research and Development

3. Details of the supplier of the safety data sheet

ISOMERLAB D.O.O.
TRZASKA CESTA
297A
SI-1000 LJUBLJANA



Telephone: +38640764332
Email: INFO@ISOMERLAB.COM

4. Emergency telephone number

112

2. Hazards Identification

1. Classification of the substance or mixture

H302	Acute Tox. 4	
H314	Skin Corr. 1B	
H360	Repr. 1B	

2. Label elements

Signal Word **Danger**



Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H360	May damage fertility or the unborn child ..

Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

Product Name	Hazards	Concentration
N,N'-Carbonyldiimidazole		
CAS Number: 530-62-1 EC/EINECS: 208-488-9	H302, H314, H360 Acute Tox. 4, Repr. 1B, Skin Corr. 1B	<=100%

4. First Aid Measures

1. Description of first aid measures

<i>Skin Contact</i>	P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
<i>Eye Contact</i>	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<i>Ingestion</i>	P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
<i>Inhalation</i>	P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

2. Most important symptoms and effects

There may be irritation and redness.
Severe burns may occur.

3. Indication of any immediate medical attention

No additional measures required

5. Firefighting measures

1. Extinguishing Media

<i>Suitable</i>	Carbon dioxide. Alcohol resistant foam. Dry chemical powder. Water.
<i>Unsuitable</i>	no data

2. Special Hazards arising from the substance or mixture

In combustion emits toxic fumes of nitrogen oxides.
In combustion emits toxic fumes of cyanide.
In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.
Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

2. Environmental Precautions

Do not discharge into drains or rivers.
Contain the spillage using bunding.

3. Methods & Materials

Absorb into dry earth or sand.
Use neutralising agent.
Transfer to a closable, labelled salvage container for disposal by an appropriate method.

4. Preventing the occurrence of secondary hazards.

No Special Measures Required

7. Handling and Storage

1. Personal Precautions

<i>Safe Handling</i>	Ensure there is sufficient ventilation of the area. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product.
<i>Protection against explosions and fires</i>	P363: Wash contaminated clothing before reuse. Keep ignition sources away- do not smoke (smoking kills)

2. Conditions for safe storage, including any incompatibilities

<i>Managing Storage Risks</i>	Keep away from sources of ignition. Keep container tightly closed. Refrigerate. Store under inert gas.
<i>Storage Controls</i>	No special requirements Moisture sensitive air sensitive
<i>Maintaining Integrity</i>	Store away from oxidising agents Keep in tightly closed container in cool area away from direct sunlight or heat sources. Store in refrigerator Store and handle under Argon
<i>Other advice</i>	no further information available

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

<i>General protective and hygiene measures</i>	P280: Wear protective gloves/protective clothing/eye protection/face protection. Wash hands during breaks and at the end of handling the material Immediately remove any contaminated clothing
<i>Engineering measures</i>	Use only in a chemicals fume hood.
<i>Eye / Face Protection</i>	Safety Glasses with side-shields.
<i>Hand protection</i>	The selected Gloves have to satisfy the specifications of EU directive 89/686/EEC and the standard EN 374 derived from it.
<i>Respiratory protection</i>	P260: Do not breathe dust/fume/gas/mist/vapours/spray.
<i>Skin protection</i>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practice. Wash and dry hands. Protective clothing.
<i>Other personal protection advice</i>	no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Solid
Odour	No Data Available

Odour threshold	No Data Available
PH	7.7
Melting point / Freezing point	114-123°C
Initial boiling point and boiling range	> 300°C
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	0.012 Pa @ 25°C
Vapour density	No Data Available
Relative density	1.566
Solubility(ies):	No Data Available
Partition coefficient: n-octanol/water	-0.02 @ 25°C
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

Reacts with water.

2. Stability

Stable under normal conditions.

3. Possibility of Hazardous Reactions

no hazardous reactions known

4. Conditions to Avoid

Moisture

5. Incompatible Materials

Acids.
 Oxidising agents.
 Water.

6. Hazardous Decomposition Products

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
 In combustion emits toxic fumes of nitrogen oxides.
 In combustion emits toxic fumes of hydrogen cyanide.
 In combustion emits toxic fumes of nitrous vitriol gases

11. Toxicology information

1. Information

<i>Acute Toxicity</i>	Oral LD50 (rat) 970mg/kg Dermal LD50 (rat) 6000mg/kg
<i>Skin corrosion/irritation</i>	irritant for skin and mucous membranes
<i>Serious eye Damage/irritation</i>	strong caustic effect.
<i>Respiratory or skin sensitisation</i>	No sensitizing effect known
<i>Germ Cell mutagenicity</i>	not known

<i>Carcinogenicity</i>	not known
<i>Reproductive toxicity</i>	May damage fertility or the unborn child ..
<i>STOT-single exposure</i>	not known
<i>STOT-repeated exposure</i>	not known
<i>Aspiration hazard</i>	not known

2. Additional

swallowing will lead to a strong caustic effect on mouth and throat and the danger of perforation of oesophagus and stomach.
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
No classification data on carcinogenic properties of this material is available from the EPA, IARC,NTP,OSHA or ACGIH

12. Ecological Information

1. Toxicity

Toxicity to fish:
Leuciscus idus LC50 283.6mg/l/48 h
Toxicity to aquatic invertebrates:
Daphnia magna EC50 341.5mg/l/48 h
Toxicity to aquatic algae and cyanobacteria:
Desmodesmus subspicatus EC50 133mg/l/72 h

2. Persistence and degradability

not known

3. Bio-Accumulative Potential

not known

4. Mobility and Soil

Log Pow: -0.02 @ 25°C

5. Results of PBT & vPvB assessment

not known

6. Other adverse effects

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Hand over to authorised disposal company as hazardous waste.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

- UN Number:** 3263
- Shipping Name:** Corrosive solid, basic, organic, n.o.s.
- Transport hazard class(es):** : 8 Sub Class :



- Packing group:** II
- Environmental hazards:**
- Special Precautions for user:**
- Transport in bulk:**

Road (ADR)

1. **UN Number:** 3263
2. **Shipping Name:** CORROSIVE SOLID, BASIC, ORGANIC, N.O.S (N,N'-Carbonyldiimidazole).
3. **Transport hazard class(es):** : 8 Sub Class :



4. **Packing group:** II
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

Sea (IMDG)

1. **UN Number:** 3263
2. **Shipping Name:** Corrosive solid, basic, organic, n.o.s.
3. **Transport hazard class(es):** : 8 Sub Class :



4. **Packing group:** II
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:** IBCINS: IBC08
IBCPPOV: B4, B21
TANKPROV: TP33

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)
RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association
ICAO:International Civil Aviation Organization
ICAO-TI: Technical Instructions by the ICAO
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS:Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, 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 material safety data sheet, or in combination with any other product or process, is the responsibility of the user.