



INTATRADE  
**MATERIAL SAFETY DATA SHEET**  
according to 1907/2006/EC, Article 31

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## 1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Product name: **1,1-Carbonyldiimidazole**  
Product code: IS01316  
Company: INTATRADE Chemicals GmbH  
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## 2. HAZARDS IDENTIFICATION

Hazard designation: C Corrosive  
Information pertaining to particular dangers for man and environment: R 22 Harmful if swallowed.  
R 34 Causes burns.

GHS label elements:

**Danger**

H314 - Causes severe skin burns and eye damage.

**Warning**

H302 - Harmful if swallowed.

Prevention: P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
Response: 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.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Storage: P405 Store locked up.  
Disposal: P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization  
Designation: 1,1'-Carbonyldiimidazole  
CAS-No.: 530-62-1  
EC-No.: 208-488-9

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## 4. FIRST AID MEASURES

General information Instantly remove any clothing soiled by the product.

IS01316

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After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.
After skin contact	Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After eye contact	Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing	Seek immediate medical advice.

## 5. FIRE FIGHTING MEASURES

Suitable extinguishing agents:	CO <sub>2</sub> , extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
Special hazards caused by the material, its products of combustion or flue gases:	Can be released in case of fire: Nitrogen oxides (NO <sub>x</sub> ), Hydrogen cyanide (HCN), Carbon monoxide and carbon dioxide
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
Measures for environmental protection:	Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting:	Use neutralizing agent. Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.
Additional information:	See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

## 7. HANDLING AND STORAGE

Handling Information for safe handling:	Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.
Information about protection against explosions and fires:	Keep ignition sources away - Do not smoke.
Storage Requirements to be met by storerooms and containers: Information about storage in one common storage facility: Further information about storage conditions:	No special requirements. Store away from oxidizing agents. Store away from water. Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and keep away from water. Store in a locked cabinet or with access restricted to technical experts or their assistants.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
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Components with critical values  
that require monitoring at the workplace: Not required.

#### Personal protective equipment

General protective and  
hygienic measures:

The usual precautionary measures should be adhered to in handling  
the chemicals.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Breathing equipment:

Use breathing protection with high concentrations.

Eye protection:

Tightly sealed safety glasses, full face protection

Body protection:

Protective work clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

Form: Crystalline powder

Colour: White

Smell: Not determined

### Change in condition

Melting point/Melting range: 116-120°C

Boiling point/Boiling range: Not determined

Sublimation temperature/start: Not determined

Flash point: Not applicable

Ignition temperature: Not determined

Decomposition temperature: Not determined

Danger of explosion: Product is not explosive.

Critical values for explosion:

Lower: Not determined

Upper: Not determined

Steam pressure: Not determined

Density: Not determined

Solubility in water: Decomposes

pH-value (50 g/l) at 20°C: 7.7

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## 10. STABILITY AND REACTIVITY

Thermal decomposition /  
conditions to be avoided:

No decomposition if used and stored according to specifications.

Materials to be avoided:

Acids

Oxidizing agents

Water/moisture

Dangerous reactions:

No dangerous reactions known

Dangerous products of decomposition: Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide and carbon dioxide,  
Hydrogen cyanide (prussic acid)

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## 11. TOXICOLOGICAL INFORMATION

Acute toxicity:

LD/LC50 values that are relevant for classification:

Oral LD50 1071 mg/kg (rat)

Irritation of skin severe unknown mg (rabbit)

Irritation of eyes severe unknown mg (rabbit)

Primary irritant effect:

on the skin: Corrosive effect on skin and mucous membranes.

on the eye: Strong corrosive effect.

Sensitization:

No sensitizing effect known.

Additional toxicological information: Swallowing will lead to a strong caustic effect on mouth and throat and  
to the danger of perforation of esophagus and stomach.

To the best of our knowledge the acute and chronic toxicity of this  
substance is not fully known.

## 12. ECOLOGICAL INFORMATION

Additional ecological information

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

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## 13. DISPOSAL CONSIDERATIONS

Product

Recommendation:

Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations.

Consult state, local or national regulations for proper disposal.

Uncleaned packagings

Recommendation:

Disposal must be made according to official regulations.

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## 14. TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS/E Class: 8 (C8) Corrosive substances.

Kemler Number: 80

UN-Number: 3263

Packaging group: II

Label 8

Designation of goods: 3263 CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.  
(1,1'-Carbonyldiimidazole)

Limited quantities (LQ) LQ23

Transport category 2

Tunnel restriction code E

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: 8

UN Number: 3263

Label 8

Packaging group: II

Marine pollutant: No

Segregation groups Alkalis

Correct technical name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.  
(1,1'-Carbonyldiimidazole)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 8

UN/ID Number: 3263

Label 8

Packaging group: II

Correct technical name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.  
(1,1'-Carbonyldiimidazole)

UN "Model Regulation": UN3263, CORROSIVE SOLID, BASIC, ORGANIC, N.O.S., 8, II

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## 15. REGULATORY INFORMATION

Designation according to EC guidelines:

Code letter and hazard

designation of product: C Corrosive

Risk phrases:	22 Harmful if swallowed. 34 Causes burns.
Safety phrases:	26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
National regulations	
Information about limitation of use:	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.

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## 16. OTHER INFORMATION

### Warranty

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. Intatrade Chemicals GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.