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## 1 Identification of the substance/mixture and of the company/undertaking

- **Informations to product No. 4488**
- **Product name:**

**Nicotinamid**  
Nicotinamidum  
Nicotinamide

- **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH  
Herderstr. 31  
40721 Hilden  
Tel.: 02103/4994-0  
Fax: 02103/32360  
e-mail: info@caelo.de

- **Emergency telephone:**

Giftinformationszentrum Mainz  
Langenbeckstr. 1, 55131 Mainz  
Tel.: 06131/19240

- **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

- **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

## 2 Hazards identification

- **GHS-Labeling Elements:**



- **Signal word:** Warning

- **H-Phrases:**

H319 Causes serious eye irritation

- **P-Phrases:**

P305 IF IN EYES:

P351 Rinse continuously with water for several minutes


**Eye Irrit. 2**

## 3 Composition / information on ingredients

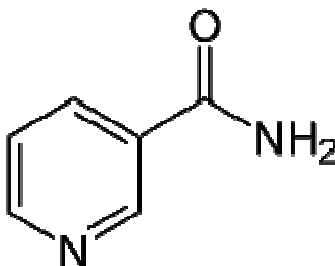
- **Chemical characterization:**

**CAS-No. Substance name**

98-92-0 Nicotinamid

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- **EINECS-No.:** 202-713-4
- **REACH-No.:** 01-2119968268-22-0000
- **INCI-Name:** Niacinamide
- **Molar mass:** 122,13 g/mol



#### 4 First aid measures

- **after inhalation:** Fresh air.
- **after skin contact:** Remove contaminated clothing, wash away with water..
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open. If irritation continues, call in ophthalmologist..
- **after swallowing:** Drink plenty of water, Induce vomiting, Seek medical advice.

#### 5 Fire-fighting measures


- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible but not flammable. In case of fire dangerous gases / vapours can be released: Smoke gases.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

#### 6 Accidental release measures

- **Personal protective measures:** Avoid dust formation and contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

#### 7 Handling and storage

- **Handling:** No special requirements.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature ( +15°C to +25°C ). Protect from light.
- **Advices on common storage:** Not required.

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## 8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of rubber
- **Eye protection:** Safety glasses.

## 9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** nearly odourless
- **Melting point / melting range:** 128 - 131 °C
- **Boiling point / boiling range:** 224 °C (20 hPa)
- **Flash point:** 182 °C
- **Ignition temperature:** 440 °C
- **Density:** not determined; Bulk density: ca. 360 kg/cbm
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 691 - 1000 g/l
- **Ethanol:** (20 °C) 660 g/l
- **pH-range:** (50 g/l, 20 °C) 6,0 - 7,5

## 10 Stability and reactivity


- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none. Thermal decomposition ab 150 °C.

## 11 Toxicological information

- **Acute Toxicity:**  
LD50/oral/Rat: 3.540 mg/kg (OECD-Richtlinie 401)  
LD50/dermal/Rabbit: > 2.000 mg/kg (OECD-Richtlinie 402)
- **Primary irritant effect:**  
Skin irritation/Rabbit: Not irritant. (OECD-Guideline 404)  
Mucous membranes/Rabbit: Irritant. (OECD- Guideline 405)  
Sensitization/Maximation test on guinea pig (GPMT)/ sensitizing (OECD-Richtlinie 406)  
Sensitization/Bühler- guinea pig: nicht sensibilisierend (OECD-Richtlinie 406)  
Based on results of animal tests a sensitizing potenzial can not be completely excluded.
- **Other information (experimatal toxicology):**  
Results of several tests on microorganisms, mammal cell cultures and mammals on genotoxic properties are existing. The sum of the available informations give no evidence, that the substance ha a genotoxic effect.

## 12 Ecological information

- **Aquatic toxicity:**  
Fishes: OECD 203 static: Poecilia reticulata/LC50 (96 h): > 1.000 mg/l

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Aquatic invertebrates: OECD 202, Part 1 static: Daphnia magna/EC50 (24 h): > 1.000 mg/l  
Water plants: OECD 201 static. Scenedesmus subspicatus/EC50 (72 h): 560 mg/l  
Micro organisms / Effect on activated sludge: Pseudomonas putida/EC10 (18 h): 4.235 mg/l  
Evaluation of aquatic toxicity:

With high probability not harmful for water organisms.

• **Behaviour in sewage plants:** In biological sewage plants disturbances of the biodegradation activity of bacteria are not likely.

• **Information about elimination (persistence and degradability):**

Data to elimination:

Test method: OECD 301E/92/69/EWG, C.4-B (aerob)

Elimination degree: 96 % (28 d)

Evaluation: readily biodegradable. (according to OECD-criteria).

**Bioakkumulationspotential**

• **log p(O/W):** (22 °C) – 0,38

Accumulation in organisms is not likely.

• **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

### 13 Disposal considerations

• **Product:**

• **Recommendation:** Disposal according to local regulations as pharmaceutical waste..

• **Empty contaminated packaging:**

• **Recommendation:** Disposal according to the local regulations.

### 14 Transport informations

• **Land transport according to ADR:**

Not classified as dangerous in the meaning of transport regulations.

### 15 Regulatory information

• **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product is classified and labelled according to GHS-regulations.

• **Hazard symbols:** GHS07

• **Signal word:** Warning

• **H-Phrases:**

H319 Causes serious eye irritation

• **P-Phrases:**

P305 IF IN EYES:

P351 Rinse continuously with water for several minutes


• **National regulations (Germany):**

• **Water hazard class:** see chapter 12

• **Storage class TRGS 510:** 11

### 16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

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· **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.