

Trade name: Nicotinamide FCC

Substance number: 781560

Version: 1 / CH

Date revised: 22.04.2024

Replaces Version: - / CH

Print date: 22.04.24

## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

Nicotinamide FCC

Item No. 78156008

### **1.3. Details of the supplier of the safety data sheet**

#### **Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

### **1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

##### **Hazard pictograms**



##### **Signal word**

Warning

##### **Hazard statements**

H319 Causes serious eye irritation.

##### **Precautionary statements**

P264.1 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

### **2.3. Other hazards**

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

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## **SECTION 3: Composition/information on ingredients**

### **Hazardous ingredients**

#### **Nicotinamide**

CAS No.	98-92-0		
EINECS no.	202-713-4		
Concentration	>=	50	%
Classification (Regulation (EC) No. 1272/2008)			
	Eye Irrit. 2		H319

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

Remove contaminated clothing immediately and dispose of safely.

#### **After inhalation**

Remove the casualty into fresh air and keep him calm. Take medical treatment.

#### **After skin contact**

Wash off immediately with soap and water and rinse well.

#### **After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Eye treatment by an ophthalmologist.

#### **After ingestion**

Rinse out mouth and give plenty of water to drink. Take medical treatment.

### **4.2. Most important symptoms and effects, both acute and delayed**

Important or other important known symptoms and effects are described in the GHS labelling of the product (see section 2) and in section 11.

### **4.3. Indication of any immediate medical attention and special treatment needed**

#### **Hints for the physician / treatment**

Symptomatic treatment (decontamination, vital functions), no specific antidote known.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Water spray jet, Foam, Dry powder

#### **Non suitable extinguishing media**

Full water jet

### **5.2. Special hazards arising from the substance or mixture**

Avoid inhalation of smoke and vapours. In the event of fire the following can be released: Nitrogen oxides (NOx); Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

#### **Other information**

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Cool endangered containers with water spray jet.

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## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Do not inhale dust. Ensure adequate ventilation. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

### **6.3. Methods and material for containment and cleaning up**

For small amounts: take up with appropriate instrument and dispose. For tall amounts: Take up mechanically and collect in suitable container for disposal. Avoid raising dust. Dispose of absorbed material in accordance with the regulations.

### **6.4. Reference to other sections**

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Keep away from heat and sources of ignition. Isolate from sources of heat, sparks and open flame. Take action to prevent static discharges. Avoid dust formation. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with skin, eyes and clothing.

#### **Advice on protection against fire and explosion**

The product is capable of dust explosions. Avoid dust formation. Take action to prevent static discharges. Keep away from sources of ignition. Procure extinguisher. Use explosion-proof equipment/fittings and non-sparking tools.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

Keep container tightly closed in a well-ventilated place. Keep in a cool place.

#### **Storage classes**

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	11/13	Other solid hazardous substances with classification/labelling hazardous

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Derived No/Minimal Effect Levels (DNEL/DMEL)**

##### **Nicotinamide**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	43.75	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)
Reference group	Consumer
Duration of exposure	Long term

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Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	12.5	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	12.5	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	21.88	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	12.5	mg/kg

**Predicted No Effect Concentration (PNEC)**

**Nicotinamide**

Type of value	PNEC	
Type	Saltwater	
Concentration	0.1	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	0.33	mg/kg
Type of value	PNEC	
Conditions	Intermittend	
Concentration	10	mg/l
Type of value	PNEC	
Type	Sediment	
Concentration	1.1085	mg/kg
Type of value	PNEC	
Type	Freshwater	
Concentration	1	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	423.5	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	0.1109	mg/kg

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## 8.2. Exposure controls

### General protective and hygiene measures

Avoid contact with skin and eyes. Do not breathe dust. General industrial hygiene practice. At work do not eat, drink, smoke or take drugs. Wash hands and face before breaks and after work. Store work clothing separately.

### Respiratory protection

Use breathing apparatus in dust/fumes/mist-laden atmosphere. Particle filter P1; FFP1 (EN 149)

### Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	nitrile rubber - NBR		
Material thickness	0.4	mm	
Breakthrough time	480	min	
Appropriate Material	Butyl rubber		
Material thickness	0.7	mm	
Breakthrough time	480	min	
Hand protection must comply with EN 374.			

### Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

### Body protection

Clothing as usual in the chemical industry.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	cream colour
Odour	almost odourless

### Melting point

Value	128	to	131	°C
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### Boiling point or initial boiling point and boiling range

Value	224	°C
Pressure	20	hPa

### Flammability

Not self inflammable

### Upper and lower explosive limits

Remarks	Not applicable
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### Flash point

Value	> 150	°C
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### Ignition temperature

Value	440	°C
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### Decomposition temperature

Value	150	°C
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### pH value

Value	6	to	7.5
Concentration/H <sub>2</sub> O	50	g/l	
Temperature	20	°C	

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**Viscosity**

Remarks Not applicable

**Solubility(ies)**

Ethanol

Value 660 g/l

**Partition coefficient n-octanol/water (log value)**

log Pow -0.38

Temperature 21 °C

Method 92/69/EEC, A.8

**Vapour pressure**

Value 0.00045 Pa

Temperature 25 °C

Method 92/69/EEC, A.4

**Density and/or relative density**Value 1.5 g/cm<sup>3</sup>

Temperature 25 °C

Method OECD 109

**Relative vapour density**

Remarks Not applicable

**9.2. Other information****Solubility in water**

Value 691 to 1000 mg/l

Temperature 20 °C

**Explosive properties**

evaluation The product is capable of dust explosions.

**Oxidising properties**

evaluation Not oxidising

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions (see section 7).

**10.3. Possibility of hazardous reactions**

danger of dust explosion. Stable under recommended storage and handling conditions (see section 7).

**10.4. Conditions to avoid**

Avoid dust formation. Keep away from sources of heat and ignition. Stable under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials**

Oxidising agents

**10.6. Hazardous decomposition products**

No hazardous decomposition products known when handled according to prescribed instructions.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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**Acute oral toxicity (Components)****Nicotinamide**

Reference substance	Nicotinamide	
Species	Rats (male/female)	
LD50	> 2500	mg/kg
Method	OECD 423	

**Nicotinamide**

Reference substance	Nicotinamide	
Species	mouse	
LD50	2500	mg/kg

**Nicotinamide**

Species	rat	
LD50	3530	mg/kg
Method	OECD 401	

**Acute dermal toxicity (Components)****Nicotinamide**

Reference substance	Nicotinamide	
Species	rabbit	
LD50	> 2000	mg/kg
Method	OECD 402	

**Acute inhalative toxicity (Components)****Nicotinamide**

Species	rat	
LC50	> 3.8	mg/l
Duration of exposure	4	h
Method	OECD 436	

**Skin corrosion/irritation (Components)****Nicotinamide**

Species	rabbit	
evaluation	non-irritant	
Method	OECD 404	

**Serious eye damage/irritation (Components)****Nicotinamide**

Species	rabbit	
evaluation	irritant	
Method	OECD 405	

**Sensitization (Components)****Nicotinamide**

Route of exposure	dermal	
Species	guinea pig	
evaluation	non-sensitizing	
Method	OECD 406	

**Nicotinamide**

Route of exposure	inhalative	
Species	guinea pig	
evaluation	non-sensitizing	
Method	OECD 406	

**Mutagenicity (Components)****Nicotinamide**

evaluation	No mutagenicity in the Ames-test.	
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Method OECD 471

**Nicotinamide**

evaluation No experimental information on genotoxicity in vitro available.

Method OECD 473

**Nicotinamide**

Species mouse

evaluation No experimental indications on genotoxicity in vivo found.

Method OECD 474

**Reproduction toxicity (Components)****Nicotinamide**

Species rabbit

evaluation No negative effects

Method OECD 414

**Carcinogenicity (Components)****Nicotinamide**

Species mouse

evaluation No indications of carcinogenic effects are available from long-term trials.

**Specific Target Organ Toxicity (STOT) (Components)****Nicotinamide**Reference substance Nicotinamide  
Route of exposure oral

Species rat

NOAEL 215 mg/kg

Duration of exposure 28 d

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity (Components)****Nicotinamide**Species guppy (*Poecilia reticulata*)

LC50 &gt; 1000 mg/l

Duration of exposure 96 h

Method OECD 203

Remarks The details of the toxic effect relate to the nominal concentration.

**Daphnia toxicity (Components)****Nicotinamide**Species *Daphnia magna*

EC50 &gt; 1000 mg/l

Duration of exposure 24 h

Method OECD 202

Remarks The details of the toxic effect relate to the nominal concentration.

**Algae toxicity (Components)****Nicotinamide**Species *Desmodesmus subspicatus*

EC50 &gt; 1000 mg/l

Duration of exposure 72 h



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Method OECD 201  
Remarks The details of the toxic effect relate to the nominal concentration.

**Nicotinamide**

Species Desmodemus subspicatus  
NOEC 560 mg/l  
Duration of exposure 72 h  
Method OECD 201  
Remarks The details of the toxic effect relate to the nominal concentration.

**Bacteria toxicity (Components)****Nicotinamide**

Species Pseudomonas putida  
EC10 4235 mg/l  
Duration of exposure 18 h

**Nicotinamide**

Species Pseudomonas putida  
NOEC 4235 mg/l  
Duration of exposure 18 h  
Method OECD 209  
Remarks The details of the toxic effect relate to the nominal concentration.

**12.2. Persistence and degradability****Biodegradability (Components)****Nicotinamide**

Value 95 %  
Duration of test 28 d  
evaluation Readily biodegradable  
Method OECD 301E

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water (log value)**

log Pow -0.38  
Temperature 21 °C  
Method 92/69/EEC, A.8

**Octanol/water partition coefficient (log Pow) (Components)****Nicotinamide**

log Pow -0.38  
Temperature 20 °C  
Method OECD 107

**12.4. Mobility in soil****Mobility in soil (Components)****Nicotinamide**

Will not adsorb on soil.

**12.5. Results of PBT and vPvB assessment****Results of PBT and vPvB assessment**

The Substance does not meet PBT-criteria.  
This substance does not meet the vPvB-criteria.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

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**SECTION 13: Disposal considerations****SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

H319 Causes serious eye irritation.

**CLP categories listed in Chapter 3**

Eye Irrit. 2 Eye irritation, Category 2

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
 This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.