

Trade name: Nicotinamidum

Substance number: 761550

Version: 1 / CH

Date revised: 03.04.2024

Replaces Version: - / CH

Print date: 03.04.24

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

1.1. Product identifier

Nicotinamidum

Item No. 76155010

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

Dust can form an explosive mixture with air.

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

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

SECTION 3: Composition/information on ingredients

Molecular weight

Value	122.13	g/mol
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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 with soap and water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Eye doctor.

After ingestion

Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Take medical treatment.

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

5.2. Special hazards arising from the substance or mixture

Nitrogen oxides (NO_x); Carbon monoxide (CO); Carbon dioxide (CO₂); In case of combustion, evolution of health hazardous partially burned gases. Forms explosive mixture with air are possible. Avoid inhalation of smoke and vapours.

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 large amounts: take up with appropriate instrument and dispose. Dispose of absorbed material in accordance with the regulations. Avoid raising dust.

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. Take action to prevent static discharges. Avoid dust formation. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

The product is capable of dust explosions. Avoid dust formation. Electrostatic loading of the material is possible. 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

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

Further information on storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight.

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 ³

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

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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

8.2. Exposure controls

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General protective and hygiene measures

Avoid contact with skin and eyes. Remove contaminated, soaked clothing immediately and dispose of safely. Wash contaminated clothing before reuse. Do not inhale dust/fumes/mist. General industrial hygiene practice. At work do not eat, drink, smoke or take drugs. Wash hands and face after work. Store work clothing separately.

Respiratory protection

Breathing apparatus in the event of vapours. Breathing apparatus in the event of aerosol. Particle filter P1; EN 143; 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

Hand protection must comply with EN 374.

Appropriate Material Butyl rubber
Material thickness 0.7 mm

Hand protection must comply with EN 374.

Eye protection

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

Body protection

apron; Boots; protective overalls

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state solid
Colour cream colour
Odour almost odourless
Physical state Powder

Melting point

Value 128 to 131 °C

Boiling point or initial boiling point and boiling range

Value 224 °C
Pressure 20 hPa

Flammability

The product is not easily combustible.

Upper and lower explosive limits

Remarks Not relevant

Flash point

Value > 150 °C

Ignition temperature

Value 440 °C

Decomposition temperature

Value 150 °C

pH value

Value 6 to 7.5
Concentration/H₂O 50 g/l
Temperature 20 °C

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Viscosity**dynamic**

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 1.4 g/cm³
Temperature 25 °C
Method OECD 109**Relative vapour density**

Remarks Not applicable

Particle characteristicsType d10
Particle size 84.95 µm
Method OECD 110
Type d50
Particle size 141.69 µm
Method OECD 110
Type d90
Particle size 209.92 µm
Method OECD 110**9.2. Other information****Odour threshold**

Remarks Not applicable

Evaporation rate

Remarks Not applicable

Solubility in waterValue 691 to 1000 mg/l
Temperature 20 °C**Self Accelerating Decomposition / Polymerization Temperature (SADT/SAPT)**

Remarks Not applicable

Explosive properties

evaluation The product is capable of dust explosions.

Oxidising properties

evaluation Not oxidising

Bulk densityValue appr. 500 to 700 kg/m³**Other information**

The product is not dangerous for explosions. The product is capable of dust explosions.

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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. Sparks. Flames

10.5. Incompatible materials

Oxidising agents

10.6. Hazardous decomposition products

None under normal use.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

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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.
 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

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12.1. Toxicity

Fish toxicity (Components)

nicotinamide

Species	guppy (<i>Poecilia reticulata</i>)		
LC50	> 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	> 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	> 1000		mg/l
Duration of exposure	72	h	
Method	OECD 201		
Remarks	The details of the toxic effect relate to the nominal concentration.		

nicotinamide

Species	Desmodesmus 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 evaluation	28	d	
Method	Readily biodegradable		
	OECD 301E		

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

log Pow	-0.38	
Temperature	21	°C

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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.

Results of PBT and vPvB assessment (Ingredients)**nicotinamide**

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not to be expected.

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.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

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 WGK 1
 (Germany)

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

15.2. Chemical safety assessment

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For this substance a chemical safety assessment has been carried out.

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.