

Trade name: Nicotinamide EP/USP

Substance number: 781550 Version: 1 / CH Date revised: 14.08.2023

Replaces Version: - / CH Print date: 14.08.23

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

1.1. Product identifier

Nicotinamide EP/USP

Item No. 78155000

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 H31

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

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

Take off contaminated clothing and shoes immediately.

After inhalation

Remove the casualty into fresh air and keep him calm. Summon a doctor immediately.

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.). Summon a doctor immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Summon a doctor immediately.

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

Forms esplosive mixture with air are possible. In case of combustion, evolution of health hazardous partially burned gases. Nitrogen oxides (NOx); Carbon monoxide (CO); Carbon dioxide (CO2)

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures



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Avoid dust formation. Do not inhale dust. Ensure adequate ventilation. Wear protective equipment. 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

Avoid raising dust. Suitable industrial vacuum cleaners or central exhaust ventilation equipment must be used for taking up dust (with a suitable filter to prevent particles blowing back into the atmosphere e.g. Type H(BS5415)).

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8. 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 sources of ignition. Isolate from sources of heat, sparks and open flame. Take action to prevent static discharges. Avoid the formation and deposition of dust. 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 ignition sources, fire and open light. 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/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Long term
Route of exposure oral

Mode of action Systemic effects

Concentration 12.5 mg/kg

Type of value Derived No Effect Level (DNEL)



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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

Duration of exposure

Route of exposure

Mode of action

Consentration

Consent

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 Soil

Concentration 0.33 mg/kg

Type of value PNEC
Conditions Intermittend

Concentration 10 mg/l

Type of value PNEC 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

General protective and hygiene measures

Avoid contact with skin and eyes. Do not inhale dust/fumes/mist. Observe the usual precautions for handling chemicals. At work do not eat, drink, smoke or take drugs. Wash hands and face before breaks and after work. Store work clothing separately.



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Respiratory protection

Breathing apparatus in the event of aerosol. 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

Hand protection must comply with EN 374. 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

necessary; apron; Boots; protective overalls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state solid

Colourcream colourOdouralmost 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

Not ignitable

Upper and lower explosive limits

Remarks Not applicable

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

Solubility(ies)

Ethanol Value 660 g/l

Partition coefficient n-octanol/water (log value)



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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

Particle characteristics

Type 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

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 None known

Other information

The product is not dangerous for explosions. Forms esplosive mixture with air are possible.

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Avoid dust formation. The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

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 prescibed instructions.



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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

OECD 423 Method

nicotinamide

nicotinamide Reference substance

Species mouse

LD50 2500 mg/kg

nicotinamide

Species rat

LD50 3530 mg/kg

OECD 401 Method

Acute dermal toxicity (Components)

nicotinamide

Reference substance nicotinamide

Species rabbit

2000 LD50 mg/kg

OECD 402 Method

Acute inhalative toxicity (Components)

nicotinamide

Species rat

LC50 3.8 mg/l h

Duration of exposure 4

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 **OECD 406** Method

nicotinamide

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



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Remarks No data available.

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

12.1. Toxicity

Fish toxicity (Components)

nicotinamide

Species guppy (Poecilia reticulata)

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.



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Algae toxicity (Components)

nicotinamide

Species Desmodesmus subspicatus

EC50 1000 mq/l

Duration of exposure 72

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

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 301 E

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

-0.38 log Pow

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 envrionment

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



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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

Dispose of as unused product.

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 W

(Germany)

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

15.2. Chemical safety assessment

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.