



Material Safety Data Sheet

Niacinamide USP FCC

1. Product and Company Identification

Product name Niacinamide USP FCC

Product code 04 0963 4

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6. Accidental release measures

- | | |
|-------------------------|---|
| Methods for cleaning up | <ul style="list-style-type: none">- collect solids (avoid dust formation) and hand over to waste removal- rinse with plenty of water |
|-------------------------|---|

7. Handling and storage

Handling

- | | |
|--------------------|--|
| Technical measures | <ul style="list-style-type: none">- processing in closed systems, if possible superposed by inert gas (e.g. nitrogen)- local exhaust ventilation necessary- take precautionary measures against electrostatic charging- avoid dust formation; very high dust explosion hazard |
| Suitable materials | <ul style="list-style-type: none">- stainless steel, aluminium, enamel, glass, polyethylene |

Storage

- | | |
|---------------------|---|
| Storage conditions | <ul style="list-style-type: none">- room temperature- protected from light- store in a dry place |
| Validity | <ul style="list-style-type: none">- 36 months, < 25 °C, in the unopened original container, see "best use before" date stated on the label |
| Packaging materials | <ul style="list-style-type: none">- tightly closing; material: glass, aluminium, food-approved plastics |

8. Exposure controls/Personal protection

- | | |
|----------------------|--|
| Engineering Measures | <ul style="list-style-type: none">- see 7. |
|----------------------|--|

Monitoring

- | | |
|-----------------------------|--|
| Threshold value (Roche) air | <ul style="list-style-type: none">- IOEL: 5 mg/m³ (Internal Occupational Exposure Limit) |
| Analytics | <ul style="list-style-type: none">- sampling on glass fibre filter and gravimetric or chemical determination |

Personal protective equipment

- | | |
|------------------------|---|
| Respiratory protection | <ul style="list-style-type: none">- Respiratory protection is recommended as a precaution to minimize exposure. Effective engineering controls are considered to be the primary means to control worker exposure. Respiratory protection should not substitute for feasible engineering controls.- in case of open handling or accidental release: particle mask or respirator with independent air supply |
| Hand protection | <ul style="list-style-type: none">- protective gloves |
| Eye protection | <ul style="list-style-type: none">- safety glasses |

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9. Physical and chemical properties

Color	practically white
Form	crystalline powder
Odor	almost odourless, with bitter taste
Molecular mass	122.13 g/mol
Empirical formula	C ₆ H ₆ N ₂ O
Density	1.36 g/cm ³ (20 °C)
Bulk density	~ 0.6 g/cm ³
Solubility	~ 10'000 mg/l, diethyl ether ~ 16'000 mg/l, n-octanol ~ 77'000 mg/l, ethanol absolute ~ 100'000 mg/l, glycerine ~ 660'000 mg/l, ethanol 96 % 691'000 mg/l, water (20 °C)
Partition coefficient	log P _{ow} -0.38 (octanol/water 20 °C) (Shake Flask Method, OECD No. 107)
pH value	6.0 to 7.5 (5 % aqueous solution)
Melting temperature	128 to 131 °C
Boiling temperature	224 °C (20 mbar)

10. Stability and reactivity

Stability	- stable under the conditions mentioned in chapter 7
Conditions to avoid	- light - humidity
Materials to avoid	- acids, bases (hydrolysis)
Note	- drying operations at the lowest temperatures possible

11. Toxicological information

Acute toxicity	- LD ₅₀ 3'500 mg/kg (oral, rat) - LD ₅₀ 2'500 mg/kg (oral, mouse)
Local effects	- skin: non-irritant (guinea pig) - eye: strongly irritant (rabbit; OECD No. 405)
Mutagenicity	- not mutagenic
Carcinogenicity	- not carcinogenic
Note	- therapeutic daily dose (adults): 300-1000 mg - long exposure or overingestion may cause vasodilation, skin

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16. Other information

Use	- pharmaceutical active substance in vitamin preparations - food and feed additive
Biological activity	- 1 N.E. (Niacin Equivalent) corresponds to 1 mg niacin (as either nicotinic acid or nicotinamide) or 60 mg dietary tryptophan *1
Safety-lab number	- BS-4916 - BS-7069
Edition documentation	- changes from previous version in sections 2
*1 referring to:	Niacin

The information in this safety data sheet is based on current scientific knowledge. It should not be taken as expressing or implying any warranty concerning product characteristics.