

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

- collect solids (avoid dust formation) and hand over to waste
 - removal
- rinse with plenty of water

7. Handling and storage

Handling

Technical measures - 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 - stainless steel, aluminium, enamel, glass, polyethylene

Storage

Storage conditions - room temperature

protected from lightstore in a dry place

Validity - 36 months, < 25 °C, in the unopened original container, see "best

use before" date stated on the label

Packaging materials - tightly closing; material: glass, aluminium, food-approved plastics

8. Exposure controls/Personal protection

Engineering Measures - see 7.

Monitoring

Threshold value (Roche) air - IOEL: 5 mg/m3 (Internal Occupational Exposure Limit)

Analytics - sampling on glass fibre filter and gravimetric or chemical

determination

Personal protective equipment

Respiratory protection - Respiratory protection is recommended as a precaution to minimze

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 - protective gloves

Eye protection - 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 C₆H₆N₂O

Density 1.36 g/cm³ (20 °C)

Bulk density ~ 0.6 g/cm³

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 Pow -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 - LD₅₀ 3'500 mg/kg (oral, rat)

- LD₅₀ 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.

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