

Safety data sheet

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 08.10.2003

Product: **CALCIUM PANTOTHENATE / USP**

Version: 1.0

(30149177/SDS_GEN_EU/EN)

Date of print 29.04.2005

1. Substance/preparation and company identification

CALCIUM PANTOTHENATE / USP

Use: feed additive(s), Vitamin

Company:

BASF Aktiengesellschaft

Fine Chemicals Division

67056 Ludwigshafen, Germany

E-mail address: basis-msds-label.me-qr@basf-ag.deEmergency information:

Fire brigade BASF Ludwigshafen

Telephone: +49-621-60-43333

Telefax number: +49-621-60-92664

2. Composition/information on ingredients

Chemical nature

calcium-pantothenate, D-form

CAS Number: 137-08-6

EG-Number: 205-278-9

3. Hazard identification

No particular hazards known.

4. First-aid measures

General advice:

Remove contaminated clothing.

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If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.

5. Fire-fighting measures

Suitable extinguishing media:

water spray, dry extinguishing media

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

No special precautions necessary.

Environmental precautions:

Do not empty into drains.

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Pick up with suitable appliance and dispose of.

7. Handling and storage

Handling

Handle in accordance with good industrial hygiene and safety practice. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges.

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Storage

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed.

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on own tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Eye protection:

Safety glasses with side-shields (frame goggles) (EN 166)

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form:	powder
Colour:	white
Odour:	almost odourless
pH value:	6,5 - 9,5 (50 g/l, 20 °C)
Melting temperature:	approx. 190 °C
Flash point:	145 °C
Ignition temperature:	430 °C
Minimum ignition energy:	> 9 - < 18 mJ
Bulk density:	approx. 600 kg/m ³
Solubility in water:	350 g/l (20 °C)

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Partitioning coefficient n-octanol/water (log Pow): -3,9 (measured)
(25 °C)

10. Stability and reactivity

Thermal decomposition: approx. > 150 °C

Hazardous reactions:
Dust explosion hazard.

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

LD50/oral/rat: > 5.000 mg/kg (BASF-Test)

Primary skin irritation/rabbit: non-irritant (Draize test)

Primary irritations of the mucous membrane/rabbit: non-irritant (Draize test)

Further information:

No mutagenic effect was found in various tests with bacteria and mammalian cell culture.
Literature data.

12. Ecological information

Ecotoxicity

Toxicity to fish:

DIN 38412 Part 15 static

Leuciscus idus/LC50 (96 h): > 10.000 mg/l

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

Aquatic invertebrates:

DIN 38412 Part 11 static

Daphnia magna/EC50 (48 h): > 580 mg/l

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

Aquatic plants:

DIN 38412 Part 9 static

Scenedesmus subspicatus/EC50 (72 h): > 500 mg/l

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

Microorganisms/Effect on activated sludge:

DIN 38412 Part 8 aerobic

Pseudomonas putida/EC10 (17 h): > 10.000 mg/l

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

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DIN/EN/ISO 8192 aerobic
activated sludge, industrial/EC20 (180 min): approx. 20 mg/l

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.
Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.

Persistence and degradability

Elimination information

Test method: OECD 301 A (new version) (aerobic), activated sludge
Method of analysis: DOC reduction
Degree of elimination: > 70 % (21 d)

Assessment: Readily biodegradable (according to OECD criteria). The product has not been tested. The statement has been derived from products of a similar structure and composition.

Bioaccumulation potential

Accumulation in organisms is not to be expected.

13. Disposal considerations

Observe national and local legal requirements.

14. Transport information

Not classified as hazardous under transport regulations (ADR RID ADNR IMDG/GGVSee ICAO/IATA)

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

EG-Number: 205-278-9

not subject to labelling

Other regulations

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16. Other information

Vertical lines in the left hand margin indicate an amendment from the previous version.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.