

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 27.05.2010

Version: 2.0

Product: **D-Panthenol 75 W stab. with Pantolactone**

(30417785/SDS COS GB/EN)

Date of print 28.05.2010

1. Identification of the substance/mixture and of the company/undertaking

D-Panthenol 75 W stab. with Pantolactone

Use: cosmetic ingredient

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2. Hazards Identification

According to REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Label elements and precautionary statement:

| The product does not require a hazard warning label in accordance with GHS criteria.

Classification of the substance and mixture:

| No need for classification according to GHS criteria for this product.

Possible Hazards (according to Directive 67/548/EWG or 1999/45/EC)

No particular hazards known.



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3. Composition/Information on Ingredients

Chemical nature

Preparation based on: dexpanthenol, water
stabilizer

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

| D,L-Pantolactone

Content (W/W): <= 2 %
CAS Number: 599-04-2
EC-Number: 209-963-3
REACH registration number:
01-2119433002-60

Acute tox.: Cat. 4 (oral)
Eye dam./irr.: Cat. 2

Hazardous ingredients

according to Directive 1999/45/EC

D,L-Pantolactone

Content (W/W): <= 2 %
CAS Number: 599-04-2
EC-Number: 209-963-3
REACH registration number: 01-2119433002-60
Hazard symbol(s): Xn
R-phrases: 22, 36

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

4. First-Aid Measures

General advice:

Remove contaminated clothing.

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.

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Note to physician:

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, foam, dry powder, carbon dioxide

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

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

Cool endangered containers with water-spray.

6. Accidental Release Measures

Personal precautions:

Information regarding personal protective measures see, chapter 8.

Environmental precautions:

Discharge into the environment must be avoided.

Methods for cleaning up or taking up:

For large amounts: Dike spillage. Pump off product. Dispose of contaminated material as prescribed.

For residues: Rinse away with water.

7. Handling and Storage

Handling

Protection against fire and explosion:

No special precautions necessary.

Storage

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

8. Exposure Controls/Personal Protection

Personal protective equipment

Respiratory protection:

Respiratory protection not required.



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Hand protection:
Chemical resistant protective gloves (EN 374)

Eye protection:
Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:
Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:
Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form: liquid
Colour: slightly yellowish
Odour: odourless

pH value: 5.5 - 7.5
(75 %(m), 25 °C)

Flash point: > 200.00 °C
Flammability: does not ignite
Self ignition: not self-igniting

Density: 1.16 g/cm³
(25 °C)

Solubility in water: completely soluble
Solubility (quantitative) :
> 900 g/l
(20 °C)

Information on: *dexpanthenol*
Partitioning coefficient *n*-octanol/water (log Pow): -1.92 (calculated)
(25 °C)

10. Stability and Reactivity

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

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

11. Toxicological Information

Acute toxicity

Information on: dexpanthenol
Experimental/calculated data:
LD50 rat (oral): > 10,000 mg/kg (BASF-Test)

Information on: dexpanthenol
Experimental/calculated data:
rat (by inhalation): 7 h (IRT)
No mortality within the stated exposition time as shown in animal studies.

Irritation

Information on: dexpanthenol
Assessment of irritating effects:
Not irritating to the skin. Not irritating to the eyes.

Information on: dexpanthenol
Experimental/calculated data:
Skin corrosion/irritation rabbit: non-irritant (BASF-Test)

Information on: dexpanthenol
Experimental/calculated data:
Serious eyes damages/irritation rabbit: non-irritant (BASF-Test)

Respiratory/Skin sensitization

Information on: dexpanthenol
Assessment of sensitization:
Skin sensitizing effects were not observed in animal studies.

Germ cell mutagenicity

Information on: dexpanthenol
Assessment of mutagenicity:
The substance was not mutagenic in bacteria. The product has not been tested. The statement has been derived from products of a similar structure and composition.

12. Ecological Information

Ecotoxicity

Information on: dexpanthenol
Assessment of aquatic toxicity:



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There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Information on: dexpanthenol

Toxicity to fish:

LC50 (96 h) > 10,000 mg/l, Leuciscus idus (DIN 38412 Part 15, static)

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

Information on: dexpanthenol

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

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

Information on: dexpanthenol

Aquatic plants:

EC50 (72 h) > 100 mg/l (growth rate), Desmodosmus subspicatus (OECD Guideline 201, static)

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

Information on: dexpanthenol

Microorganisms/Effect on activated sludge:

EC10 (17 h) > 10,000 mg/l, Pseudomonas putida (DIN 38412 Part 8, aerobic)

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

(30 min) > 800 mg/l, activated sludge (DIN EN ISO 8192-OECD 209-88/302/EEC, P. C, aerobic)

Persistence and degradability

Information on: dexpanthenol

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria). Biodegradable. Easily eliminated from water.

Information on: dexpanthenol

Elimination information:

> 90 % DOC reduction (28 d) (OECD Guideline 302 B) (aerobic, activated sludge)

Bioaccumulation potential

Information on: dexpanthenol

Bioaccumulation potential:

Accumulation in organisms is not to be expected.

13. Disposal Considerations

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

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14. Transport Information

Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

Inland waterway transport

ADNR

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

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

Directive 1999/45/EC ('Preparation Directive'):

The product does not require a hazard warning label in accordance with EC Directives.

Other regulations

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).



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16. Other Information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

Xn	Harmful.
22	Harmful if swallowed.
36	Irritating to eyes.

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

If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: product-safety-north@basf.com

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.