

Trade name: Calcium-D-Pantothenate

Substance number: 780010

Version: 1 / CH

Date revised: 26.10.2023

Replaces Version: - / CH

Print date: 26.10.23

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

### **1.1. Product identifier**

Calcium-D-Pantothenate

Item No. 78001000

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

#### **Use of the substance/preparation**

food additive, Manufacture of cosmetics

### **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**

Voluntary product information following the Safety Data Sheet format

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

### **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 not have endocrine disrupting properties with respect to non-target organisms.

## **SECTION 3: Composition/information on ingredients**

### **Further ingredients**

#### **Calcium pantothenate , D-form**

CAS No. 137-08-6

EINECS no. 205-278-9

Concentration &gt;= 95 %

Advice: [4]

#### **Note**

[4] Voluntary information

#### **Other information**

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## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

In case of persistent symptoms consult doctor.

#### **After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment.

#### **After skin contact**

In case of contact with skin wash off with warm water. Consult a doctor if skin irritation persists.

#### **After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

#### **After ingestion**

Rinse out mouth and give plenty of water to drink.

#### **Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

### **4.2. Most important symptoms and effects, both acute and delayed**

Until now no symptoms known so far.

### **4.3. Indication of any immediate medical attention and special treatment needed**

#### **Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Foam, Carbon dioxide, Dry powder, Water spray jet

#### **Non suitable extinguishing media**

Full water jet

### **5.2. Special hazards arising from the substance or mixture**

Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Nitrogen oxides (NO<sub>x</sub>)

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

In case of combustion use a suitable breathing apparatus.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation.

### **6.2. Environmental precautions**

Do not allow to enter drains or waterways.

### **6.3. Methods and material for containment and cleaning up**

Pick up mechanically. Clean contaminated floors and objects thoroughly, observing environmental regulations.

### **6.4. Reference to other sections**

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Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Avoid dust formation. Provide exhaust ventilation if dust is formed.

#### **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**

#### **Requirements for storage rooms and vessels**

Suitable materials: Polyethylene. Use stainless steel containers. Use glass containers.

#### **Hints on storage assembly**

Do not store together with foodstuffs.

#### **Storage classes**

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	NG	Other solid hazardous substances without classification/labelling hazardous

#### **Further information on storage conditions**

Keep container tightly closed and dry.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Other information**

Contains no substances with occupational exposure limit values.

### **8.2. Exposure controls**

#### **General protective and hygiene measures**

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.

#### **Respiratory protection**

Breathing apparatus in the event of aerosol. Particle filter P1; EN 143; FFP1 (EN 149)

#### **Hand protection**

Chemical resistant gloves  
Hand protection must comply with EN 374.

#### **Eye protection**

Safety glasses with side protection shield; Eye protection must comply with EN 166.

#### **Body protection**

Clothing as usual in the chemical industry.

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

Physical state	solid
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<b>Colour</b>	white		
<b>Odour</b>	almost odourless		
<b>Physical state</b>	Granules		
<b>Melting point</b>			
Value	appr. 190		°C
<b>Freezing point</b>			
Remarks	not determined		
<b>Boiling point or initial boiling point and boiling range</b>			
Remarks	not determined		
<b>Flammability</b>			
Not ignitable			
Method	UN Test N.1 (ready combustible solids)		
<b>Upper and lower explosive limits</b>			
Remarks	Not relevant		
<b>Flash point</b>			
Value			°C
Remarks	Not applicable		
<b>Ignition temperature</b>			
Value	430		°C
Method	VDI Guideline 2263		
<b>Decomposition temperature</b>			
Value	195		°C
Remarks	To avoid thermal decomposition, do not overheat.		
<b>pH value</b>			
Value	6.5	to	9.5
Concentration/H <sub>2</sub> O	50	g/l	
Temperature	20	°C	
<b>Viscosity</b>			
Remarks	not determined		
<b>Solubility(ies)</b>			
organic solvents			
Remarks	soluble		
<b>Partition coefficient n-octanol/water (log value)</b>			
log Pow	-3.9		
Temperature	25		°C
Method	experimental		
<b>Vapour pressure</b>			
Remarks	Not applicable		
<b>Density and/or relative density</b>			
Value	1.162		g/cm <sup>3</sup>
Temperature	25		°C
<b>Relative vapour density</b>			
Remarks	not determined		
<b>9.2. Other information</b>			
<b>Odour threshold</b>			
Remarks	not determined		
<b>Evaporation rate (ether = 1) :</b>			

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Remarks not determined

**Solubility in water**Value 350 g/l  
Temperature 20 °C**Auto-ignition temperature**

Value 430 °C

**Explosive properties**

evaluation no

**Oxidising properties**

evaluation None known

**Bulk density**Value appr. 600 kg/m<sup>3</sup>**Other information**

The product is not capable of dust explosions.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No dangerous reactions known.

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

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**

No decomposition if stored and applied as directed.

**10.5. Incompatible materials**

None known

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

Remarks not determined

**Acute oral toxicity (Components)****Calcium pantothenate , D-form**Species rat  
LD50 > 5000 mg/kg  
Method BASF-test**Acute dermal toxicity**

Remarks not determined

**Acute inhalational toxicity**

Remarks not determined

**Acute inhalative toxicity (Components)**

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**Calcium pantothenate , D-form**

Species	rat		
LC0		2.14	mg/l
Duration of exposure	7	h	

**Calcium pantothenate , D-form**

Species	rat		
LC50	>	5.2	mg/l
Duration of exposure	4	h	
Method	OECD 403		

**Skin corrosion/irritation**

Reference substance Calcium pantothenate , D-form

**Skin corrosion/irritation (Components)****Calcium pantothenate , D-form**

Species	rabbit
evaluation	non-irritant
Method	Draize method

**Serious eye damage/irritation**

Reference substance Calcium pantothenate , D-form

**Serious eye damage/irritation (Components)****Calcium pantothenate , D-form**

Species	rabbit
evaluation	non-irritant
Method	Draize method

**Sensitization**

Reference substance Calcium pantothenate , D-form

**Sensitization (Components)****Calcium pantothenate , D-form**

Species	guinea pig
evaluation	non-sensitizing

**Subacute, subchronic, chronic toxicity**

Remarks not determined

**Mutagenicity**

Reference substance Calcium pantothenate , D-form

**Mutagenicity (Components)****Calcium pantothenate , D-form**

Remarks Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Reference substance Calcium pantothenate , D-form

**Reproduction toxicity (Components)****Calcium pantothenate , D-form**

Remarks Based on available data, the classification criteria are not met.

**Carcinogenicity**

Reference substance Calcium pantothenate , D-form

**Carcinogenicity (Components)****Calcium pantothenate , D-form**

Remarks No data available.

**Specific Target Organ Toxicity (STOT)**

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Reference substance Calcium pantothenate , D-form

**Specific Target Organ Toxicity (STOT) (Components)****Calcium pantothenate , D-form****Single exposure**

Remarks Based on available data, the classification criteria are not met.

**Calcium pantothenate , D-form****Repeated exposure**

Remarks Based on available data, the classification criteria are not met.

**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.

**Other information**

No toxicological data are available.

**SECTION 12: Ecological information****12.1. Toxicity****General information**

Do not allow to enter drains or water courses

**Fish toxicity**

Reference substance Calcium pantothenate , D-form

**Fish toxicity (Components)****Calcium pantothenate , D-form**

Species	golden orfe ( <i>Leuciscus idus</i> )		
LC50	>	10000	mg/l
Duration of exposure		96	h
Method	DIN 38412 T.15		
Remarks	The details of the toxic effect relate to the nominal concentration.		

**Daphnia toxicity**

Reference substance Calcium pantothenate , D-form

**Daphnia toxicity (Components)****Calcium pantothenate , D-form**

Species	Daphnia magna		
EC50	>	580	mg/l
Duration of exposure		48	h
Method	DIN 38412		
Remarks	The details of the toxic effect relate to the nominal concentration.		

**Algae toxicity**

Reference substance Calcium pantothenate , D-form

**Algae toxicity (Components)****Calcium pantothenate , D-form**

Species	Scenedesmus subspicatus		
EC50	>	500	mg/l
Duration of exposure		72	h
Method	DIN 38412 / Part 9		
Remarks	The details of the toxic effect relate to the nominal concentration.		
Source	BM000604 SDS BASF 20220909		

**Bacteria toxicity**

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Reference substance Calcium pantothenate , D-form

**Bacteria toxicity (Components)****Calcium pantothenate , D-form**

Species	activated sludge	
EC20	appr. 20	mg/l
Duration of exposure	180	min
Method	DIN EN ISO 8192	

**Calcium pantothenate , D-form**

Species	Pseudomonas putida	
EC10	> 10000	mg/l
Duration of exposure	17	h
Method	DIN 38412 Part 8	
Remarks	The details of the toxic effect relate to the nominal concentration.	

**12.2. Persistence and degradability****General information**

not determined

**12.3. Bioaccumulative potential****General information**

Not applicable

**Partition coefficient n-octanol/water (log value)**

log Pow	-3.9
Temperature	25 °C
Method	experimental

**Octanol/water partition coefficient (log Pow) (Components)****Calcium pantothenate , D-form**

log Pow	-3.9
Temperature	25 °C

**12.4. Mobility in soil****General information**

not determined

**Mobility in soil (Components)****Calcium pantothenate , D-form**

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 environment**

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

**12.7. Other adverse effects****General information**

not determined

**General information / ecology**

Do not discharge product unmonitored into the environment.



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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.

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

#### **Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off as product waste.

## **SECTION 14: Transport information**

	<b>Land transport ADR/RID</b>	<b>Marine transport IMDG/GGVSee</b>	<b>Air transport ICAO/IATA</b>
<b>14.1. UN number</b>	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 (Germany)      WGK 1

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

### **15.2. Chemical safety assessment**

For this preparation a chemical safety assessment has not been carried out.

## **SECTION 16: Other information**

### **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.