

<p align="center">SAFETY DATA SHEET</p> <p align="center">according to Regulation (EC) No. 1907/2006 of the European Parliament and Council, as amended by Regulation (EC) 830/2015.</p>		
<p align="center">D-PANTHENOL 75%</p>		
Release date: 6/16/2009	Revision date: 27/07/2016	Version C

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1	Product identifier	
	Name:	D-PANTHENOL 75%
	INCI name:	Panthenol
	CAS identification	81-13-0
	number: EINECS number:	201-327-3
	Registration	01-2119953737-24—xxxx
number:	1.2 Relevant identified uses of the substance or mixture and uses	
	advised against Intended uses: Use in the chemical and food industry.	
	Uses not recommended: No information available.	
1.3	Detailed data on the supplier of the safety data sheet	
	Place of business or registered office:	Ekokoza s.r.o., Fryšovice 297, 73945 Fryšovice
	E-mail:	eshop@ekokoza.cz
	Phone:	+420605779993
1.4	Telephone number for emergency situations	
	Toxicology Information Centre, Na Bojišti 1, Prague (24/7) +420-224919293 +420-224915402	
	Information only for health risks - acute poisoning of humans and animals	

SECTION 2: Hazards identification 2.1		
General	classification of the mixture:	
	According to Regulation (EC) 1272/2008, it is not a dangerous	
	Dangerous health effects:	substance. None.
	Hazardous effects on the environment:	Not specified
	Physico-chemical effects:	Not listed.
	Classification of the substance or mixture	
Classification according to 1272/2008	Hazard class and category codes	Hazard statement codes:
	Not classified	Not classified
2.2	Label elements	
	Hazard warning symbol:	Empty.
	Signal word:	Empty.
	Standard hazard statements:	-----
	Standard phrases for safe handling:	-----
	Additional information:	The product is not subject to mandatory labeling according to Directive 67/548/EEC, 1999/45/EC or Regulation 1272/2008/EC.
2.3	Other hazards	
	Neither the mixture nor the components are assessed as PBT or vPvB at the date of preparation of the safety data sheet.	

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SECTION 3: Composition/information on ingredients

Mixtures Classification

Identifier of a non-hazardous component (INCI)	Concentration / range concentration	Index number CAS number	Index number EC number	Classification 1272/2008
Panthenol	75%	81-13-0	201-327-3	-
Aqua	25%	7732-18-5	231-791-2	-

The product does not contain dangerous substances for human health or the environment. Regulation 67/548/EEC, Directive 1272/2008 (CLP).

The full wording of H-phrases, P-phrases is given in chapter 16.

SECTION 4: First aid measures 4.1

Description of first aid measures

No hazards requiring special aid. Never give anything by mouth to an unconscious person.

Always seek medical help if symptoms persist or in case of more serious health damage.

Use protective clothing, self-contained breathing apparatus, full protective gear, MSHA/NIOSH. During burning, irritating and highly toxic gases are produced, which are formed during thermal decomposition or combustion.

When inhaling: Move the victim to fresh air. If required, provide artificial respiration.
Keep the casualty warm.

In case of skin contact: Wash with soap and water.

In case of eye contact: Immediately flush wide open eyes with running water for at least 15 minutes. Then see a doctor.

After ingestion: Rinse mouth and drink plenty of water.

4.2 Most important acute and delayed symptoms and effects See point 11.

4.3 Instructions for immediate medical attention and special treatment
Information not available.

SECTION 5: Firefighting measures

5.1 Extinguishing

media Suitable extinguishing media: Water, foam, carbon dioxide.

Unsuitable extinguishing agents: Not specified.

5.2 Special hazards arising from the substance or mixture

In case of fire, toxic gases (CO, CO₂, NO_x) may be produced.

5.3 Instructions for firefighters

Protection of the respiratory system - self-contained breathing apparatus and protective clothing. Usual precautions when handling chemicals.

SECTION 6: Accidental release measures 6.1 Personal

precautions, protective equipment and emergency procedures

Usual precautions when handling chemicals. Use personal protective equipment (see point 8).

6.2 Environmental protection measures

Avoid release to ground, surface and waste waters, soils and sewers. In case of environmental contamination, inform the relevant authorities - police, fire brigade.

6.3 Methods and material for containment and cleaning up

Small and large quantities: collect with a suitable absorbent (e.g. sand, sawdust, diatomaceous earth) and transfer to a suitable replacement container. Dispose of in accordance with regulations.

6.4 Reference to other sections

See section 7 Information on safe handling.

See Section 8 for information on personal protective equipment.

See section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use personal protective equipment (see point 8). Follow the rules for working with chemicals. Do not eat, drink or smoke while working. After work and before eating, wash your hands with soap and water and treat with repair cream. Wash contaminated clothing before further use. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation. Ensure adequate ventilation.

7.2 Conditions for safe storage of substances and mixtures, including incompatible substances and mixtures

Store in tightly closed packages, in the cold at temperatures up to 25°C, in a dry place. Ensure adequate ventilation. Protect from moisture. Store separately from incompatible materials. Store packaging separately from food.

7.3 Specific end / specific end uses Not listed.

SECTION 8: Exposure controls / personal protective equipment

8.1 Control parameters No

exposure limit is given.

Wash hands before breaks and at the end of work, do not eat, drink or smoke while working.

Exposure limits according to Government Regulation No. 361/2007 Coll., as

Name of substance (ingredient):	TIME	amended PEL mg/m ³	NPK-P mg/m ³	Note
-	-	-	-	-

TODAY

Not listed.

PNEC

Not listed.

8.2 Exposure controls Keep

away from food, drink and feed. Remove clothing contaminated with the product immediately. Follow the rules for working with chemicals. Wash your hands with soap and water after work and before eating. Avoid contact with skin and eyes.

Limiting worker exposure Respiratory

protection: Use a respirator (OSHA's 29 CFR 1910.134 and ANSI Z88.2 or EN 149) if required by workplace conditions.

Eye protection:

Wear safety glasses with side shields.

Hand protection:

Use protective gloves.

Skin protection: Wear protective clothing.

Limiting environmental exposure No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Viscous liquid.

	Clear, colorless.
Appearance: Color: Odor: Characteristic.	
Odor threshold: pH (at 20°C):	Information not available.
6-7.5	
Melting point / Freezing point	Information not available.
Initial boiling point and boiling point (°C): No information available.	
Flash point (°C): No	information available.
Evaporation rate: No	information available.
Flammability: information available.	
Explosive or flammability limits: upper limit (% vol): No information available. lower limit (% vol):	
	Information not available.
Vapor pressure:	Information not available.
Vapor density:	Information not available.
Relative density (20 °C):	Information not available.
Solubility:	Soluble in water.
Partition coefficient: n-octanol / water:	Information not available.

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	Auto-ignition temperature:	Information not available.
	Decomposition temperature:	Information not available. 540
	Viscosity (25°C):	mPa/s
	Explosive properties:	Information not available.
	Density at 20 °C	Information not available.
	Oxidizing properties:	Information not available.
9.2 Additional information Not listed.		

SECTION 10: Stability and reactivity	
10.1 Reactivity No	information available.
10.2 Chemical stability No	information available.
10.3 Possibility of hazardous reactions	No information available.
10.4 Conditions to avoid	Avoid heat and humidity.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	Nitrogen oxide, carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

1.1.1.2 Acute toxicity		Test type	Result	Exposure route	Test organism
and)					
	LD50, rat, oral b)			10000 mg/kg	
Corrosivity/ Skin irritation Non-irritating, non-corrosive.					
c) Serious eye damage/eye/ skin irritation No information available. d)					
Respiratory sensitization / skin sensitization No information available. e)					
Mutagenicity in germ cells No information available. f) Carcinogenicity					
No information available.					
g) Reproductive toxicity Information not available. h)					
Specific target organ toxicity - single exposure No information available					

SECTION 12: Ecological information				
12.1 Toxicity				
	<i>Fish</i>			
	Folder name	Test organism	Test duration 96	Result
	LC50	Fish	hours	Mime. 10000 mg/dm3
	<i>Aquatic invertebrates</i>			
	Folder name	Test organism	Duration of the test	Result
	EC50	-	-	-
	EC50	-	-	-

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	<i>Eyelashes</i>			
	Folder name	Test organism Algae	Test duration 48	Result
	EC50		hours	Min. 100 mg/dm3
	<i>Daphnia</i>			
	Folder name	Test organism	Test duration 48	Result
	EC50	Daphnia	hours	Min. 100 mg/dm3
	<i>Bacteria</i>			
	Folder name	Test organism	Duration of the test	Result
	-	-	-	-
12.2	Persistence and Deployability			
	Biodegradation: >90% 28 days OECD.			
12.3	Bioaccumulative potential			
	Accumulation in organisms is not expected.			
12.4	Mobility in soil			
	No information available.			
12.5	Results of PBT and vPvB assessment			
	No information available.			
12.6	Other adverse effects			
	Prevent water from entering the soil, drains, waste water.....			

SECTION 13: Disposal considerations	
13.1	Waste management methods a)
	Suitable methods for removing the substance or mixture and contaminated packaging: If the product becomes waste, mark it, classify it according to the relevant regulations and include the identification hand over the waste sheet to a company authorized to dispose of waste according to the Waste Act. Place both completely emptied and non-emptied packaging in marked containers for waste collection and marked waste hand over for removal to an authorized person for waste removal.
	b) Physical/chemical properties that may affect the way waste is managed Not listed.
	c) Prevention of waste removal through sewerage Do not pour down the drain.
	d) Special safety measures for recommended waste management Not listed.

SECTION 14: Transport information	
14.1	UN not applicable
14.2	Proper shipping name (UN): Land
	transport ADR : Not applicable. Rail transport RID :
	Not applicable.
	Sea transport IMDG: Not applicable.
	Air transport Not applicable. ICAO/IATA:
14.3	Transport hazard class(es).
	Ground transportation ADR Rail transport RID Sea transport IMDG: Air Transport ICAO/IATA:
	- - - -
14.4	Classification

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	Ground transportation ADR	RID rail transport		
	-	-		
	Packaging group			
	Ground transportation ADR	Railway transport RID	Sea transport IMDG:	Air Transport ICAO/IATA:
	-	-	-	-
	Hazard identification number (Kemler)			
	Ground transportation ADR			
	-			
	Safety sign			
	Ground transportation ADR	Rail transport RID	Sea transport IMDG:	Air Transport ICAO/IATA:
	-	-	-	-
	Note			
	Ground transportation ADR	Rail transport RID	Sea transport IMDG:	Air Transport ICAO/IATA:
	-	-	Marine pollutant: no	PAO:- CAO:-
	14.5 Environmental hazards No information available.			
14.6 Special security measures for users No dangerous goods in the sense of traffic regulations.				
14.7 Bulk transport according to convention II MARPOL 73/78 and the IBC regulation Not applicable.				

SECTION 15: Regulatory Information	
15.1 Safety, health and environmental regulations / substance-specific legislation or mixtures	Act 185/2001 Coll., on waste, as amended. EC Regulation 1907/2006 (REACH). Regulation EC 1272/2008 (CLP). Regulation EC 830/2015.
15.2 Chemical safety assessment A chemical	safety assessment has not been prepared for the product.

SECTION 16: Further information		
	a) Changes made to the safety data sheet as part of the revision	
	Date of issue of the manufacturer's safety data sheet: 05/2015	
	Revision history:	
	Version	Date
	Changes	
	C	27.07.2016 b)
	Version A 16/06/2009, Version B 10/12/2013.	
	Key or legend to abbreviations DNEL	
	Derived No Effect Level (derived concentration of substance at which no adverse effects occur).	
	PNEC	Predicted No Effect Concentration (estimation of the concentration of a substance at which adverse effects do not occur).
PEL	Permissible long-term exposure limit (8 hours).	
NPK-P	Maximum permissible concentration, short-term limit.	
CLP	Regulation EC 1272/2008.	

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	REACH	EC Regulation 1907/2006.
	PBT	The substance is persistent, bioaccumulating and toxic at the same time.
	vPvB	Highly persistent and highly bioaccumulating substance.
	c) Important references to literature and data sources. The information provided here is based on the best of our knowledge and current legislation. The safety data sheet was further processed on the basis of the original safety data sheet provided by the manufacturer.	
	d) List of relevant hazard statements and/or instructions for safe handling. e) Training guidelines.	
	Regular training for handling chemicals. f) Additional	
	information. This product must not be used for applications other than those listed in Section 1. The information and data given are based on the current state of knowledge and cannot be regarded as guarantees of product properties. The customer must comply with applicable laws and regulations at his own risk.	