



Y&R

Chemistry for Colorful Life

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MATERIAL SAFETY DATA SHEET

DL-Panthenol

Version 2.0 Date/revised:Jan.09,2017

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

1.1 Product Identifier:

Identification the label/Trade Name:DL-Panthenol

Additional Identification:Panthenol,DL-form

Identification the product:CAS#16485-10-2

1.2 Relevant identified uses of the substance and uses advised against:Not available

1.3 Details of the supplier of the safety data sheet:

Supplier:Tianjin YR Chemspec Technology Co.,Ltd.

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2. Hazards Identification

2.1 Classification of the substance/mixture

The substance is not classified as hazardous material according to 67/548/EEC and Regulation(EC) NO.1272/2008.

2.2 Label Elements

Hazard Pictograms:No Hazard pictogram is used.

Signal Word(s):No signal word is used.

Hazard Statement:Not applicable.

Precautionary Statement:Not applicable.

2.3 Other Hazards:Not available.

3. Composition/Information on Ingredients

Substance/Mixture:Substance

Chemical Name	CAS NO.	EC NO.	Concentration
DL-Panthenol	16485-10-2	240-540-6	100%

4. First aid measures

4.1 Description of first aid measures: In all cases of doubt, or when symptoms persist, seek medical attention.

In case of inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.

In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

In case of eyes contact: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eyes. Keep eyes wide open while rinsing.

In case of ingestion: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to unconscious person.

4.2 Most important symptoms and effects, both acute and delayed: The product is not classified as harmful to human health effect.

4.3 Indication of any immediate medical attention and special treatment needed: If skin irritation or rash occurs, get medical advice/attention.

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Water spray, dry powder, alcohol-resistant foam, dry chemical.

Unsuitable extinguishing media: Not available

5.2 Special hazards arising from the substance or mixture: Heating or fire can release toxic gas.

5.3 Special fire fighting methods and special protective actions for fire-fighters: In the event of fire, wear self-contained breathing apparatus, collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Provide adequate ventilation. Avoid inhalation of dust. Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

6.1.2 For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

6.2 Environmental Precautions: Try to prevent the material from entering drains or water courses.

6.3 Method for Containment and Cleaning UP: Keep in suitable, closed containers for disposal.

6.4 Reference to other sections: See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

7. Handling and storage

7.1 Precaution for safe handling:

7.1.1 Protective measures: Good hygienic practices should be observed. Avoid contact with skin and eyes. Avoid breathing dust. If exposed to high dust concentration, leave area immediately. Work clothes should be washed separately at the end of each work day. Keep away from sources of ignition. Ensure good ventilation/exhaustion at the workplace.

7.1.2 Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities: Protect from humidity. Store at room temperature.

8. Exposure controls and personal protection

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available

8.1.2 Additional exposure limits under the condition of use: Not available

8.1.3 DNEL/DMEL and PNEC-Values: Not available

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If user operations generate dust, use ventilation to keep exposure to airborne contaminants below the exposure limit.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/Face protection: Safety glasses.

Hand protection: Glove material: for example nitrile rubber, consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate type of protective gloves.

Body protection: Protective suite.

Respiratory protection: No personal respiratory protective equipment normally required.

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment. According to local regulations, Federal and official regulations.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	Solid
Colour:	Colorless to lightly yellow.
Odour:	a slight characteristic odour
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	64.5~68.5°C
Boiling point/range (°C):	239.8 °C
Flash point (°C):	Not available
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Non flammable
Upper/lower flammability/explosive limits:	Not available
Vapour pressure (25°C):	0.004 Pa
Vapour density:	Not available

Density:	1.29 g/cm ³ at 19.8 °C
Bulk density (kg/m³):	Not available
Water solubility (g/l):	562.3 g/L at 22 °C
n-Octanol/Water (log Po/w):	-1.02 at 22 °C
Auto-ignition temperature:	> 400 °C
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	Non explosive
Oxidising properties:	Not available
Molecular Formula:	C ₉ H ₁₉ NO ₄
Molecular Weight:	205.25
9.2. Other information:	
Fat solubility(solvent– oil to be specified) etc:	Not available
Surface tension:	70.2 mN/m
Dissociation constant in water(pKa):	11.65(22 °C)
Oxidation-reduction Potential:	Not available
Specific gravity:	Not available

10. Stability and reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Incompatible materials. Heat.
10.5 Incompatible materials:	Strong acids and strong bases, strong oxidizing agents.
10.6 Hazardous decomposition products:	Heating or fire can release toxic gas.

11. Toxicological information

11.1 Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

11.2 Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat): > 2000 mg/kg bw

LD50(Dermal, Rat): > 2000 mg/kg bw

LC50(Inhalation, Rat): Not available

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: Not classified
STOT-repeated exposure: Not classified

12. Ecological information

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	>100mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	>100mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	>100mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Readily biodegradable, but failing 10-day window

Bioaccumulative potential: Not available.

Mobility in soil: The product is soluble in water.

Results of PBT&vPvB assessment: The substance is not PBT / vPvB.

Other adverse effects: Not available.

13. Disposal considerations

13.1 Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

13.2 Product / Packaging disposal: If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

14. Transport information

	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated
Transport hazard Class	Not regulated	Not regulated	Not regulated
Packaging group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC	Not regulated	Not regulated	Not regulated

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young must be observed. For use only

by technically qualified individuals.

Other National regulations:

Not applicable

Chemical Safety Assessment has been carried out?

YES

NO

16. Other information

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.