

Printing date 28.08.2018

CHEM S solutions through service

Revision: 28.08.2018

Identification of the substance/mixture and of the company/undertal	king
· Product identifier	
Trade name: <u>pentane-1,5-diol</u>	
Article number: A0287260	
CAS Number:	
111-29-5	
EC number:	
203-854-4 Belanant identified uses of the substance on minture and uses advised against	
• Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.	
• Application of the substance / the mixture Laboratory chemicals	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Chemos GmbH & Co. KG	
Werner-von-Siemens-Straße 3	
93128 Regenstauf	
Deutschland	
chemos@chemos.de	
www.chemos.de	
Further information obtainable from: Abteilung Produktsicherheit	
Emergency telephone number:	
EU 112	
Germany 49(0)613119240	
France +33(0)145425959	
Spain +34915620420	
Netherlands +31(0)302748888	
Switzerland 145	
English speaking countries +441865407333	
USA / Canada +12024642554	
Australia +61280144558	
Germany: +49(0)613119240	
Hazards identification	
Classification of the substance or mixture	
Classification according to Regulation (EC) No 1272/2008	
The substance is not classified, according to the CLP regulation.	
Label elements	
• Labelling according to Regulation (EC) No 1272/2008 Void	
Hazard pictograms Void	
Signal word Void	
Hazard statements Void	
Other hazards	
Caution! To the best of our knowledge the toxicological properties of this material h	nave
not been thoroughly investigated.	
Results of PBT and vPvB assessment	
PBT: Not applicable.	
• vPvB: Not applicable.	

Printing date 28.08.2018

Revision: 28.08.2018

Trade name: pentane-1,5-diol

(Contd. of page 1)

3 Composition/information on ingredients

- · Chemical characterisation: Substances
- · CAS No. Description
- 111-29-5 pentane-1,5-diol
- · Identification number(s)
- EC number: 203-854-4

4 First aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions:
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · 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 disposal information.

7 Handling and storage

· Handling:

- **Precautions for safe handling** No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- · Storage class: 10

(Contd. on page 3)

Printing date 28.08.2018

Revision: 28.08.2018

(Contd. of page 2)

Trade name: pentane-1,5-diol

• *Specific end use(s) No further relevant information available.*

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- · Respiratory protection: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling

Information on basic physical and o General Information	chemical properties	
Appearance:		
Form:	Fluid	
Colour:	Colourless	
Odour:	Nearly odourless	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/freezing point: Initial boiling point and boiling re	-16 °C Inge: 240-244 °C	
Flash point:	142 °C	
Flammability (solid, gas):	Not applicable.	
Ignition temperature:	330 °C	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	1.3 Vol %	
Upper:	13.1 Vol %	

Printing date 28.08.2018

Revision: 28.08.2018

Trade name: pentane-1,5-diol

		(Contd. of page 3)
· Vapour pressure at 20 •C:	<0.01 hPa	
· Density at 20 •C:	$0.99 \ g/cm^3$	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Fully miscible.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Oral LD50 2,000 mg/kg (rat)

Dermal LD50 >19,800 mg/kg (rabbit)

- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- \cdot **Reproductive toxicity** Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- $\cdot \textbf{STOT-repeated exposure} Based on available data, the classification criteria are not met.$
- Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.

(Contd. on page 5)

GB

Printing date 28.08.2018

Revision: 28.08.2018

Trade name: pentane-1,5-diol

- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation Smaller quantities can be disposed of with household waste.
- · Uncleaned packaging:
- *Recommendation: Disposal must be made according to official regulations.*
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

UN proper shipping name	ot regulated ot regulated
• ADR, ADN, IMDG, IATA no • Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class no	ot regulated
· Packing group · ADR, IMDG, IATA no	ot regulated
• Environmental hazards: No	lot applicable.
· Special precautions for user No	Iot applicable.
• Transport in bulk according to Annex II of Marpol and the IBC Code No	lot applicable.
· UN ''Model Regulation'': no	ot regulated

15 Regulatory information

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

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Abteilung Umweltschutz

· Contact: Hr. Gräwe

(Contd. on page 6)

(Contd. of page 4)

⁻ GB

Printing date 28.08.2018

Revision: 28.08.2018

(Contd. of page 5)

Trade name: pentane-1,5-diol

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative