

Material Safety Data Sheet

Acc. to 91/155/EWG

PENTAGAL Chemie u. Maschinenbau GmbH

Date / Revised:

2006-02-14 Version: 1.0

Date of print:

2006-03-16

Product:

Palux 30 H

1. Substance/preparation and company identification

PALUX 30 H

Company:

PENTAGAL Chemie u. Maschinenbau GmbH

Carolinenglückstrasse 35

D-44793 Bochum, Germany

Telephone: +49-234-52 32 59

Telefax number: +49-234-52 29 89

E-mail address: info@pentagal.de

Emergency information:

PENTAGAL Chemie u. Maschinenbau GmbH, Mr. Schlaeger, Mr. Winter

2. Composition/information on ingredients

Chemical nature

Blend based on: polyglycoether listed in EINECS

Hazardous ingredients

Polyglycoether, Hydrobromic Acid

Hazard symbol(s): Xi

R-phrase(s):

20/21 /22 /36 /37

S-phrases

24 / 26 / 36 / 37

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

3. Hazard identification

No special hazards have to be mentioned.

4. First-aid measures

General advice:

Remove contaminated clothing.

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If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

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.

Note to physician:

Treatment

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-fighting measures

Suitable extinguishing media:

water, dry extinguishing media, foam, carbon dioxide

Specific hazards:

harmful vapours. Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing.

Environmental precautions:

Contain contaminated water / fire fighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For large amounts: Pump off product. For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

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7. Handling and storage

Handling

No special measures necessary provided product is used correctly. Use with local exhaust ventilation.

Protection against fire and explosion:

Take precautionary measures against static discharges.

Storage

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

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release.

Hand protection:

Chemical resistant protective gloves (EN 374). Suitable materials short-term contact and/or splashes (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374) butyl rubber (butyl) - 0.7 mm coating thickness

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.4 mm coating thickness. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (EN 166)

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

9. Physical and chemical properties

<u>Form:</u>	liquid	
<u>Colour:</u>	yellowish	
<u>Odour:</u>	product specific	
<u>pH value:</u>	2	(100 g/l, 20 °C) (DIN/ISO 976)
<u>solidification temperature:</u>	approx. < -17 °C	(DIN/ISO 3016)
<u>Flash point:</u>	> 300 °C	(DIN/ISO 2592)
<u>Ignition temperature:</u>	approx. 410 °C	(DIN 51794)
<u>Density:</u>	1,07 - 1,11 g/cm ³ (23 °C)	(DIN 51757)
<u>Solubility in water:</u>	fully soluble	
<u>Viscosity, kinematic:</u>	400 - 450 mm ² /s (23 °C)	DIN 51562)

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10. Stability and reactivity

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

Hazardous decomposition products:

carbon dioxide, aldehydes, glycolether, hydrogen bromide. Prolonged thermal loading can result in products of degradation being given off.

11. Toxicological information

not specified

12. Ecological information

Ecotoxicity

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Persistence and degradability

Elimination information

Test method:	OECD Guideline 302 B
Method of analysis:	DOC reduction
Degree of elimination:	20 - 70 %

Additional information

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from products of a similar structure and composition.

13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packs can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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14. Transport information

Transport by Land ADR/RID and GGVS/GGVSE (boarder-crossing)

ADR/RID – GGVS/E class	8 (C3) corrosive
Kemler-No	80
UN	3265
PG	II
Label	8
Proper shipping name	3265 corrosive acid organic liquid N.O.S.(Polyglycolether, Hydrobromic acid)

Transport by Sea IMDGGGVSee

IMDG/GGVSee class	8
UN	3265
Label	8
PG	II
Proper shipping name	3265 corrosive acid organic liquid N.O.S.(Polyglycolether, Hydrobromic acid)

15. Regulatory information

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

16. Other information

Full text of hazard symbols, R-phrases and S-phrases if mentioned as hazardous components in chapter 2:

Xi Irritating.

R-phrases:

20/21 Harmful by inhalation and in contact with skin.

22 Harmful if swallowed

36 Irritating to eyes

37 Irritating to respiratory system

S-phrases:

24 Avoid contact with skin

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

36 Wear suitable protective clothing

37 Wear suitable gloves

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.