

Safety Data Sheet

In accordance with REACH Regulation (EC) no. 1907/2006

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

Product name: PAKOL

Use: Liquid jointing compound for sealing various threaded joints with flax/hemp.

Product registration no.: -

Date: 19.05.1998

Revised on: 11.03.2010

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The logo for Unipak, featuring the word "Unipak" in a bold, yellow, sans-serif font with a blue outline.

2. Hazards identification

The product has hazard classification R10.

The product contains solvents which on inhalation in large quantities over a prolonged period may damage the central nervous system. Contains 2-propanol, which can cause sensitisation by skin contact.

The product is flammable.

3. Composition/information on ingredients

Selected ingredients	EINECS/ ELINCS	CAS no.	Wt-%	Classification
Ethanol	200-578-6	64-17-5	30-60	F;R11 ClaP*: Flam Liq. 2: H225
2-propanol	200-661-7	67-63-0	1-5	F;R11 Xi;R36 R67 ClaP*: Flam Liq. 2: H225 Eye Irrit. 2; H319 STOT SE 3: H336

ClaP*: European Parliament and Council Regulation (EC) no. 1272/2008.
The full text of R and H phrases is given in Par. 16.

4. First-aid measures

Inhalation:

Remove casualty to fresh air. If discomfort continues, seek medical advice.

Skin contact:

Wash the skin with plenty of soap and water. After washing, rub skin with a thick cream. In case of persistent irritation, seek medical advice.

Eye contact:

Open the eye wide and rinse with plenty of water for at least 15 minutes. If the irritation does not improve, seek medical advice.

Swallowing:

Avoid vomiting if possible. Give the casualty water or milk to drink. Seek medical advice.

Burns:

Flush with water until the pain stops. During flushing, remove clothing which is not burnt onto the skin from the burnt area. If medical treatment is necessary, continue flushing until the doctor takes over treatment.

5. Fire-fighting measures

The product is flammable.

As far as possible remove the product from areas threatened by fire. Use supplied-air respirator for fire fighting. Toxic gases (e.g. carbon monoxide) are emitted in the case of fire.

Extinguish the fire with carbon dioxide, foam, powder or water mist.

6. Accidental release measures

Avoid ignition sources. No smoking.
In case of release to the external environment, contact the environmental authorities.
Cover/absorb large quantities of released material with sand or other absorbent material.
These must then be treated as waste. See also Pars. 8 and 13.
Do not let the product run into drainage systems.

7. Handling and storage

Ensure there is good ventilation when using the product. If this is not possible approved breathing masks may be worn as a temporary measure. See Par. 8.
Avoid contact with skin and eyes. If skin contact cannot be avoided, protective gloves may be worn. Where there is a risk of splashing, protective goggles may be worn. See Par. 8.
Remove contaminated work clothing immediately.
Store the product in the closely sealed original packaging in a cool and well-ventilated place.
Fire hazard class: II-1, One storage unit: 5 litres.

8. Exposure controls/personal protection

The following notifiable ingredients have a threshold value under Danish Working Environment Authority Instruction (At-anvisning) C.0.1, 2007:

Ethanol	1,900 mg/m ³
Isopropyl alcohol (2-propanol)	490 mg/m ³

Compliance with threshold values can be checked with occupational hygiene measurements.

In the case of a workplace user instruction, it must be ensured that employees are not exposed to effects which could present a risk for pregnancy or breast-feeding.

The following personal protective measures are recommended, where necessary:

Breathing apparatus: Supplied-air	Gloves: Nitrile* or butyl. In case of spillage onto gloves, change these immediately and wash hands thoroughly with soap and water.	Eye protection: Goggles if necessary.
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**) It is important to note that there are many different types of nitrile gloves, so their effectiveness with regard to the specific product will need to be documented.*

9. Physical and chemical properties

Appearance:	Orange liquid	Solubility in water:	-
	-	Partition coefficient	
Odour:	-	n-octanol/water:	-
pH:	-	Flash point:	36°C
Boiling point:	-	Self-ignition temperature:	-
Melting point:	-	Explosion limits:	-
Vapour pressure (20 °C):		Viscosity:	-
Density:			

-: Means no data or not applicable

10. Stability and reactivity

On contact with strong oxidants, heating and formation of flammable vapours may occur.
On heating, vapours are emitted which may ignite and form explosive mixtures with air.

11. Toxicological information

Inhalation:

Vapour from the product has a strong irritant effect on the respiratory system and can lead to dizziness, headache and general feelings of unwellness.

Skin contact:

The product has an irritant effect on contact with the skin.

Eye contact:

The product has an irritant effect on contact with the eyes.

Swallowing:

Swallowing may cause nausea, discomfort and possible vomiting. See also "Inhalation".

Long-term effects:

Repeated or prolonged exposure to the product may damage the central nervous system. Contains 2-propanol, which can cause sensitisation by skin contact.

12. Ecological information

Danger to aquatic environments: Ethanol and 2-propanol need not be classified as hazardous for aquatic environments according to Danish Environment Ministry rules. With regard to other ingredients there is insufficient data for an environmental classification according to Danish Environment Ministry rules.

Danger to other ecosystems: Insufficient data.

13. Disposal considerations

Waste catalogue code (EAK Code): 08 04 09. The product is regarded as hazardous waste. Spillage and residues to be disposed according to Local Authority instructions e.g. a municipal receiving station for chemical waste.

In case of disposal to Kommunekemi, please quote chemical wastes group: H.

For transport as waste: See Par. 14.

14. Transport information

UN No.: 1993; **ADR/RID class:** 3; **Classification code:** F1; **Packaging group:** III;
Goods description: Flammable liquid, n.o.s.; **IATA:** 3; **IMDG:** 3; **EmS:** F-E, S-E

15. Regulatory information

Hazard label on packaging:

Flammable (R10)

Keep away from sources of ignition – No smoking (S16)

Limitations on use: May not be used by young people under 18 years (except apprentices).

Requirements for special training: None.

Also covered by the following special statutory instruments: None.

Requirement for workplace user instruction as the product contains $\geq 1\%$ of a substance classified as hazardous to health under Danish Environment Ministry rules.

16. Other information

The following paragraphs have been revised: 1, 2, 3, 4, 7, 8, 11, 12, 13, 15 and 16.

Text of R and H phrases named in Pars. 2 and 3.

R10: Flammable

R11: Highly flammable

R36: Irritating to eyes

R67: Vapours may cause drowsiness or dizziness

H225: Highly flammable liquid and vapour

H319: Causes serious eye irritation

H336: May cause drowsiness or dizziness

Advice and training/instruction:

The product may only be used by persons instructed in the execution of the work and familiar with the contents of this safety data sheet.

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