

Den Braven Sealants bv

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SAFETY DATA SHEET

Zwaluw Polyurethane-50 FC

Reference : 4.21
Grade : 450
Date : 18-10-2002
Replaces : previous sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name : Zwaluw Polyurethane-50 FC
Use of the product : Sealant for the building industry.
Supplier : See above
Emergency phone number : +31 (0) 413-268716 if no answer +31 (0) 161-451909 (after working hours)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization : Mixture based on polyurethane prepolymer.

<u>Hazardous ingredients =1% and toxic ingredients = 0,1%</u>	<u>CAS Number</u>	<u>Einesc Number</u>	<u>Weight %</u>	<u>Danger Symbol</u>	<u>Risk Phrases</u>
Calcium oxide	1305-78-8	215-138-9	1-2,5	Xi	37/38-41
Solvent naphtha (petroleum), light aromatic	64742-95-6	265-199-0	2,5-10	Xn, N	10-37-51/53-65-66
Diphenylmethane-4,4'-di-isocyanate (MDI)	101-68-8	202-966-0	1-5	Xn	20-36/37/38-42/43

3. HAZARDS IDENTIFICATION

Potential health effects : May cause sensitisation by inhalation and skin contact.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Eyes : In case of contact flush eyes immediately with plenty of water for at least 15 minutes.
Lift eyelids and rinse well underneath them. Get medical attention if irritation persists.
Mouth (ingestion) : Rinse mouth with water several times. Consult a physician and show this Safety Data Sheet.
Lungs (inhalation) : Fresh air and rest. Get medical attention if complaint persists.
Skin : Remove completely with a dry cloth or paper towel, before washing with detergent and water.
Get medical attention if irritation persists.
Clothes : Remove polluted clothing.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : CO₂, powder, foam and water spray.
Unsuitable extinguishing media : Unknown.
Special fire fighting procedures : Wear protective clothing and breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Keep away from drains and watercourses.
Clean up procedures : Wipe, scrape or soak up in inert material and put in a container for disposal.
Personal precautions : Wear proper protective equipment as described in the 'eye and skin protection' section of chapter 8.

7. HANDLING AND STORAGE

Handling : Handle in well-ventilated area. Avoid contact with skin, eyes and do not swallow.
Storage : Store in closed packing between 5°C and 25°C away from direct sunlight and other sources of heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit : MAC-TGG (8h) Solvent naphtha (petroleum), light aromatic: 50 ppm
Diphenylmethane-4,4'-di-isocyanate (MDI): 0,01 ppm
Respiratory protection : Avoid breathing the vapour. Maintain good ventilation.
Eye and skin protection : Avoid contact with skin and eyes. Wear safety glasses.
Industrial hygiene : When using do not eat, drink or smoke. Wash hands after work and before breaks.
Don't rub eyes with dirty hands.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: paste	Flash point	: >55	°C
Colour	: miscellaneous	Lower explosion limit	: Unk	vol-%
Odour	: hydrocarbon	Upper explosion limit	: Unk	vol-%
Density (water=1)	: 1,15-1,19 g/ml	Ignition temperature	: Unk	°C
pH (water=7)	: Unk	Vapour pressure	: Unk	mbar
Boiling point (water =100)	: Unk °C	Mixable with water	: no	
Freezing point (water = 0)	: Unk °C	Mixable with organic solvents	: partly	
		VOC-content	: 7-8	Weight-%

10. STABILITY AND REACTIVITY

Hazardous decomposition products	: In case of fire: isocyanate, CO, CO ₂ , NO _x , HCl, HCN, SO ₂ .
Materials to avoid	: Unknown.
Conditions to avoid	: Unknown.

11. TOXICOLOGICAL INFORMATION

Product information	Diphenylmethane-4,4'-di-isocyanate
Acute oral LD50 (mg/kg)	: >15000
Acute dermal LD50 (mg/kg)	: unknown
Acute inhalation LC50 (mg/l)	: 0,49
Other information:	Unknown.

For information on hazardous substances see 'chapter' 2.

12. ECOLOGICAL INFORMATION

Avoid uncured product will come in the environment.

Degradability	: Unknown.
Ecotoxicity	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
WGK (Germany)	: Unknown.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state and local legislation.

Waste code (Germany)	: 080409
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14. TRANSPORT INFORMATION

By sea according IMDG-Code	: Not applicable.
By land according ADR	: Not applicable.
By air according ICAO/IATA-DGR	: Not applicable.
UN-number	: Not applicable.
Proper shipping name	: Not applicable.

15. REGULATORY INFORMATION

To the labelling requirements of EC Directives 67/548/EC and 1999/45/EC:

Danger symbol	: Xn Harmful
Contains	: Diphenylmethane-4,4'-di-isocyanate
R-phrases	: 42/43 May cause sensitisation by inhalation and skin contact. 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases	: 2 Keep out of reach of children. 23 Do not breathe vapour. 36/37 Wear suitable protective clothing and gloves. 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 46 If swallowed, seek medical advice immediately and show this container or label. 63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Extra	: Contains isocyanates. See information supplied by the manufacturer.
For DIY user	: Tactile warning applicable.

16. OTHER INFORMATION

This product safety data sheet conforms to EC Directive 91/155/EEC as well as its amendments including 2001/58/EC.

This data is offered in good faith as typical values and not as product specifications. No warranty either expressed or implied, is hereby made. The recommended industrial and safe handling procedures are believed to be generally applicable, each user should review the recommendations in the specific context of the intended use and determine whether they are appropriate.

NA	: Not Applicable
Unk	: Unknown