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10-25%

10-25%

2.5-10%

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 01/20/2003

Reviewed on 01/20/2003

1 Identification of substance

· Product details

*

· Trade name: DINITROL 506

· Application of the substance / the preparation Polyurethane-sealent

· Manufacturer/Supplier:

EFTEC AG Hofstrasse 31 CH-8590 Romanshorn, Switzerland

DINOL AB Spangatan 3 Box 149 S-28122 Hässleholm

• Information department: +41(0)71 466 43 00 Customer Support Laboratory

• Emergency information: +41(0)1 251 51 51 Swiss Toxicological Information Centre

2 Composition/Data on components

· Chemical characterization

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

1333-86-4 Carbon black

28553-12-0 di-"isononyl" phthalate

101-68-8 diphenylmethane-4,4'-di-isocyanante

• Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

• *Hazard description: Harmful*

· Canadian Hazard Symbols



· Information pertaining to particular dangers for man and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Irritating to eyes, respiratory system and skin.

May cause sensitization by inhalation and skin contact.

Contains isocyanates. See information supplied by the manufacturer.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· NFPA ratings (scale 0 - 4)

Health = 1 Fire = 1 Reactivity = 0

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· HMIS-ratings (scale 0 - 4)

HEALTH*1Health = *1FIRE1Fire = 1REACTIVITY0Reactivity = 0

4 First aid measures

· After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.

5 Fire fighting measures

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

· Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Not required.
- Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.
- · Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7 Handling and storage

- · Handling:
- · Information for safe handling:
- No special measures required.

Ensure good ventilation/exhaustion at the workplace.

- Prevent formation of aerosols.
- Information about protection against explosions and fires: No special measures required.

· 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: Keep receptacle tightly sealed.

8 Exposure controls and personal protection

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

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1333	-86-4 Carbon black
PEL	$3.5 mg/m^3$
REL	$3.5* mg/m^3$
	*0.1 in presence of PAHs, as PAHs; 10-hr TWA
TLV	$3.5 mg/m^3$
101-	68-8 diphenylmethane-4,4'-di-isocyanante
PEL	Short-term value: C 0.2 mg/m ³ , C 0.02 ppm
REL	Short-term value: C 0.2* mg/m ³ , C 0.02* ppm
	Long-term value: 0.05 mg/m ³ , 0.005 ppm
	*10-min
TLV	0.051 mg/m ³ , 0.005 ppm
Addi	tional information: The lists that were valid during the creation were used as basis.
Pers	onal protective equipment:
	onal protective equipment: eral protective and hygienic measures:
Gen	o nal protective equipment: e ral protective and hygienic measures: o away from foodstuffs, beverages and feed.
Gen Keep	eral protective and hygienic measures:
Gen Keep Imm	e ral protective and hygienic measures: o away from foodstuffs, beverages and feed.
Gen Keep Imm Wasi	e ral protective and hygienic measures: o away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing.
Gen Keep Imm Wasi Avoi	e ral protective and hygienic measures: b away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. In hands before breaks and at the end of work.
Gend Keep Imm Wash Avoi Brea	eral protective and hygienic measures: a way from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work. d contact with the eyes and skin. thing equipment:
Gene Keep Imm Wash Avoi Brea In co	e ral protective and hygienic measures: to away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. In hands before breaks and at the end of work. d contact with the eyes and skin.

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

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

• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

General Information

Form: Color: Highly viscous Black

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Odor:	Characteristic	
· Change in condition		
Melting point/Melting rang	e: Undetermined.	
Boiling point/Boiling range	$: 208^{\circ}C (406^{\circ}F)$	
· Flash point:	164°C (327°F)	
· Ignition temperature:	370.0°C (698°F)	
· Auto igniting:	Product is not selfigniting.	
• Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	0.1 Vol %	
Upper:	0.2 Vol %	
· Vapor pressure at 20°C (68°F	<i>F):</i> 0.0 hPa (0 mm Hg)	
· Density:	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Solvent content:		
Organic solvents:	0.0 %	

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Dangerous reactions No dangerous reactions known.

· Dangerous products of decomposition: No dangerous decomposition products known.

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

101-68-8 diphenylmethane-4,4'-di-isocyanante

Oral LD50 4700 mg/kg (rat)

Inhalative LC50/4h 370 mg/l (rat)

• on the skin: Irritant to skin and mucous membranes.

• on the eye: Irritating effect.

· Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

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[•] Primary irritant effect:

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12 Ecological information

· Ecotoxical effects:

• Acquatic toxicity:

101-68-8 diphenylmethane-4,4'-di-isocyanante

LC50 > 100 mg/l (fish)

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· Product:

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

14 Transport information

· DOT regulations:

· Hazard class:

· Land transport ADR/RID (cross-border):

· ADR/RID class:

• Maritime transport IMDG:

· IMDG Class:

• Marine pollutant: No

• Air transport ICAO-TI and IATA-DGR:

· ICAO/IATA Class: -

15 Regulations

· Sara

• Section 355 (extremely hazardous substances):

None of the ingredient is listed.

• Section 313 (Specific toxic chemical listings):

101-68-8 diphenylmethane-4,4'-di-isocyanante

· TSCA (Toxic Substances Control Act):

9082-00-2 Polyetherpolyol

1333-86-4 Carbon black

28553-12-0 di-"isononyl" phthalate

25322-69-4 Polyetherpolyol

92704-41-1 China Clay

101-68-8 diphenylmethane-4,4'-di-isocyanante

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· Proposition 65		(Contd. of page 5
· Chemicals known to cause can	cer:	
None of the ingredients is listed	l.	
· Chemicals known to cause rep	roductive toxicity	:
None of the ingredients is listed	l.	
· Cancerogenity categories		
· EPA (Environmental Protectio	n Agency)	
101-68-8 diphenylmethane-4,4	'-di-isocyanante	CBD;D
· IARC (International Agency fo	or Research on C	ancer)
1333-86-4 Carbon black		2B
101-68-8 diphenylmethane-4,4'-di-isocyanante		3
· NTP (National Toxicology Pro	gram)	<u>.</u>
None of the ingredients is listed	l.	
· TLV (Threshold Limit Value e	stablished by AC	GIH)
1333-86-4 Carbon black	A4	
77-58-7 dibutyltin dilaurate	A4	
· MAK (German Maximum Wor	kplace Concentra	ution)
1333-86-4 Carbon black		3
101-68-8 diphenylmethane-4,4'-di-isocyanante		3
· NIOSH-Ca (National Institute	for Occupational	Safety and Health)
1333-86-4 Carbon black		
· OSHA-Ca (Occupational Safet	ty & Health Admi	inistration)
None of the ingredients is listed	l.	

· Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

· Hazard symbols:



- *Hazard-determining components of labelling: diphenylmethane-4,4'-di-isocyanante*
- *Risk phrases:* Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

· Safety phrases:

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves. In case of accident or if you feel unwell, seek medical advice immediately. This material and its container must be disposed of as hazardous waste.

• Special labeling of certain preparations: Contains isocyanates. See information supplied by the manufacturer.

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· National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

• Technical instructions (air):

 Class
 Share in %

 I
 2,5-10

 III
 10-25

• Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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 MSDS: Customer Support Laboratory

· Contact: H. Perler

 \cdot * Data compared to the previous version altered.