

Page 1/6

Material Sc fery Data Sheet acc. to ISO/DIS 11014

Printing date 07/29/2003

Reviewed on 07/29/2003

1 Identification of substance

- · Product details
- · Trade name: <u>D-9000</u>
- · Application of the substance / the preparation Adhesives
- · 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

2 Composition/Data on components

- · Chemical characterization
- $\cdot \textit{Description:} \ \textit{Mixture of the substances listed below with nonhazardous additions}.$
- · Dangerous components:

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

0.1-1%

· 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.

May cause sensitization by inhalation.

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 = 0Fire = 1

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0

Fire = 1

Reactivity = 0

Printing date 07/29/2003 Reviewed on 07/29/2003

Trade name: D-9000

(Contd. of page 1)

4 First aid measures

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

Seek medical treatment in case of complaints.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.

5 Fire fighting measures

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray.

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: None.
- · Maximum storage temperature: < 35°C
- · Minimum storage temperature: > 0°C

8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Components with limit values that require monitoring at the workplace:

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

(Contd. on page 3)

Printing date 07/29/2003 Reviewed on 07/29/2003

Trade name: D-9000

(Contd. of page 2)

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

PEL Short-term value: C 0.2 mg/m³, C 0.02 ppm REL Short-term value: C 0.2* mg/m³, C 0.02* ppm

Long-term value: 0.05 mg/m³, 0.005 ppm

*10-min

 $TLV = 0.051 \text{ mg/m}^3, 0.005 \text{ ppm}$

- · Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· 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. 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: Goggles recommended during refilling.

General Information	
Form:	Fluid
Color:	Black
Odor:	Characteristic
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	208°C (406°F)
Flash point:	164°C (327°F)
Ignition temperature:	370°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 %

(Contd. on page 4)

Printing date 07/29/2003 Reviewed on 07/29/2003

Trade name: D-9000

		(Contd. of page 3)
· Density at 20°C (68°F):	1.33 g/cm^3	
· Solubility in / Miscibility with Water:	n Not miscible or difficult to mix.	
Solvent content: Organic solvents:	0.0 %	
· Solids content:	100 %	

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)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: Sensitization possible through inhalation.
- · Additional toxicological information:

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

Harmful

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.

(Contd. on page 5)

Printing date 07/29/2003 Reviewed on 07/29/2003

Trade name: D-9000

(Contd. of page 4)

- · 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):
- 92704-41-1 China Clay
- 9082-00-2 Polyetherpolyol
- 28553-12-0 di-"isononyl" phthalate
- 1333-86-4 Carbon black
- 25322-69-4 Polyetherpolyol
 - 101-68-8 diphenylmethane-4,4'-di-isocyanante
- 6425-39-4 2,2'-dimorpholinodiethylether
- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity:

None of the ingredients is listed.

- · Cancerogenity categories
- · EPA (Environmental Protection Agency)

101-68-8 diphenylmethane-4,4'-di-isocyanante CBD;D

· IARC (International Agency for Research on Cancer)

1333-86-4 Carbon black

2B

101-68-8 diphenylmethane-4,4'-di-isocyanante 3

· NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 6)

Printing date 07/29/2003 Reviewed on 07/29/2003

Trade name: D-9000

	(Contd. of page 5)			
· TLV (Threshold Limit Value established by ACGIH)				
1333-86-4 Carbon black A4				
77-58-7 dibutyltin dilaurate A4				
· MAK (German Maximum Workplace Concentration)				
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 Safety & Health Administration)				
None of the ingredients is listed.				

· Product related hazard informations:

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

· Hazard symbols:



Harmful

· Hazard-determining components of labelling:

diphenylmethane-4,4'-di-isocyanante

· Risk phrases:

May cause sensitization by inhalation.

· Safety phrases:

Do not breathe aerosol

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

After contact with skin, wash immediately with plenty of soap and water

Wear suitable protective clothing.

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.

· 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	0.1-1
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
- * Data compared to the previous version altered.