

Page 1/7

£ 2.5%

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 05/21/2002

Reviewed on 05/13/2002

1 Identification of substance

· Product details

· Trade name: <u>D-410</u>

· Manufacturer/Supplier: EFTEC AG Hofstrasse 31 CH-8590 Romanshorn, Switzerland

· 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:

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

3 Hazards identification

· Hazard description:

Harmful

· Canadian Hazard Symbols



Information pertaining to particular dangers for man and environment:

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)



· HMIS-ratings (scale 0 - 4)



(Contd. on page 2)

USA

Printing date 05/21/2002

Reviewed on 05/13/2002

Trade name: D-410

(Contd. of page 1)

4 First aid measures

· After inhalation: Supply fresh air; consult doctor 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: 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

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.
- · Class according to regulation on flammable liquids: Void

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:

1317-65-3 Coated ground natural calcium carbonate

- PEL 15*; 5** mg/m³
 - *Total dust **Respirable fraction
- REL 10*; 5** mg/m³
- *Total dust **Respirable fraction
- TLV 10 mg/m³ (e)

(Contd. on page 3)

USA ·

Printing date 05/21/2002

Reviewed on 05/13/2002

Trade name: D-410

	(Contd. of page 2)		
1330-20-7 xylene (mix)			
PEL 435 mg/m³, 100 ppm			
REL Short-term value: 655 mg/m³, 150 ppm			
Long-term value: 435 mg/m³, 100 ppm			
(o-, m-, & p-isomers)			
TLV Short-term value: 651 mg/m³, 150 ppm			
Long-term value: 434 mg/m³, 100 ppm			
BEI			
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 mg/m ³ , 0.005 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.

• 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: Not required.

• Eye protection: Goggles recommended during refilling.

· Form:	Pasty
· 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 %
• Vapor pressure at 20°C (68°F):	0 hPa
Density:	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

Printing date 05/21/2002

Reviewed on 05/13/2002

(Contd. of page 3)

Trade name: D-410

· 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:

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

- · Sensitization: Sensitization possible through inhalation.
- $\cdot \textit{Additional toxicological information:}$

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

Harmful.

12 Ecological information

· 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: -

(Contd. on page 5)

- USA

Printing date 05/21/2002

Reviewed on 05/13/2002

Trade name: D-410

(Contd. of page 4)

• Maritime transport IMDG:

· IMDG Class:

• Marine pollutant: No

• Air transport ICAO-TI and IATA-DGR: • ICAO/IATA Class: -

-

15 Regulations

· Sara

Section 355 (extremely haza	rdous substances):	
None of the ingredient is list		
Section 313 (Specific toxic c		
1330-20-7 xylene (mix)	- /	
101-68-8 diphenylmethane-4,4'-di-isocyanante		
TSCA (Toxic Substances Co	ntrol Act):	
28553-12-0 di-''isononyl'' pi	nthalate	
1330-20-7 xylene (mix)		
101-68-8 diphenylmethane-4,4'-di-isocyanante		
2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane		
4083-64-1 4-isocyanatosulphonyltoluene		
1333-86-4 Carbon black		
Proposition 65		
Chemicals known to cause co	ancer:	
None of the ingredients is list	ted.	
Chemicals known to cause re	productive toxicity:	
None of the ingredients is list	ted.	
Cancerogenity categories		
EPA (Environmental Protect	tion Aganer)	
1330-20-7 xylene (mix)	ion Agency)	D
101-68-8 diphenylmethane	-1 1'-di-iso wananta	-
IARC (International Agency	jor Kesearch on Ca	
9002-86-2 Polyvinylchlorid		3
1330-20-7 xylene (mix)	4 41 1.	3
101-68-8 diphenylmethane	-4,4 ⁻ -di-isocyanante	
1333-86-4 Carbon black		28
NTP (National Toxicology F	0	
None of the ingredients is list	ted.	
5 0	established by ACG	<i>III)</i>
	•	
	A4	
TLV (Threshold Limit Value	-	

Printing date 05/21/2002

Reviewed on 05/13/2002

Trade name: D-410

Frade name: D-410				
	(Contd. of page 5)			
77-58-7 dibutyltin dilaurate A4				
· MAK (German Maximum Workplace Concentration)				
101-68-8 diphenylmethane-4,4'-di-isocyanante	3			
1333-86-4 Carbon black	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 gas/fumes/vapour/spray. 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:	y me munujucturer.			
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.				
• Classification according to VbF: Void				
 Technical instructions (air): Class Share in % I £ 2,5 II 2,5-10 III 2,5-10 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.

(Contd. on page 7)

Printing date 05/21/2002

Reviewed on 05/13/2002

Trade name: D-410

(Contd. of page 6)

USA

• **Department issuing MSDS:** Customer Support Laboratory • **Contact:** H. Perler