

Page 1/8

# 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-528S</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

 $\cdot$  Chemical characterization

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

• Dangerous components:	
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78-93-3	butanone	50-100%
108-65-6	2-methoxy-1-methylethyl acetate	2.5-10%
141-78-6	ethyl acetate	2.5-10%
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	2.5-10%
	r	2.5-10%
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	£ 2.5%

# **3 Hazards identification**

· Hazard description:

Harmful

 ${\it Highly\, flammable}$ 

· Canadian Hazard Symbols



· Information pertaining to particular dangers for man and environment:

Highly flammable.

Irritating to eyes.

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.

(Contd. on page 2)

- USA -

Printing date 05/21/2002

Reviewed on 05/13/2002

Trade name: D-528S

(Contd. of page 1)

 $\cdot NFPA \ ratings \ (scale \ 0 - 4)$  Health = 3 Fire = 3 Reactivity = 0  $\cdot HMIS \ ratings \ (scale \ 0 - 4)$ 



## 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: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents:
- Water
- Water with full jet
- · Protective equipment: No special measures required.

## 6 Accidental release measures

- · Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- · Measures for environmental protection:
- Prevent seepage into sewage system, workpits and cellars.
- 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.
- Do not flush with water or aqueous cleansing agents

## 7 Handling and storage

·Handling:

#### · Information for safe handling:

- No special measures required.
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

(Contd. on page 3)

Printing date 05/21/2002

*Reviewed on 05/13/2002* 

## Trade name: D-528S

(Contd. of page 2)

• Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

· Storage:

- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.

· Class according to regulation on flammable liquids: A I

# 8 Exposure controls and personal protection

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

78-9	3-3 butanone
PEL	590 mg/m³, 200 ppm
REL	Short-term value: 885 mg/m³, 300 ppm
	Long-term value: 590 mg/m³, 200 ppm
TLV	Short-term value: 885 mg/m³, 300 ppm
	Long-term value: 590 mg/m³, 200 ppm
	BEI
133	3-86-4 Carbon black
	$3.5 mg/m^3$
REL	$3.5* mg/m^3$
	*0.1 in presence of PAHs
	$3.5 mg/m^3$
141-	78-6 ethyl acetate
	1400 mg/m³, 400 ppm
	1400 mg/m³, 400 ppm
TLV	1440 mg/m³, 400 ppm
9010	5-87-9 diphenylmethanediisocyanate,isomeres and homologues
TLV	(as inhalable aerosols)
Add	itional information: The lists that were valid during the creation were used as basis.
	onal protective equipment:
	e <b>ral protective and hygienic measures:</b> o away 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.
	d contact with the eyes.
	ithing equipment:
	use of brief exposure or low pollution use respiratory filter device. In case of intensive or long
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Printing date 05/21/2002

*Reviewed on 05/13/2002* 

Trade name: D-528S

(Contd. of page 3)

· Protection of hands:



9 Physical and chemical pro	operties
· Form:	Liquid
· Color:	Black
· Odor:	Characteristic
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	79°C (174°F)
· Flash point:	$-4^{\circ}C(25^{\circ}F)$
· Ignition temperature:	315°C (599°F)
• Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	1.8 Vol %
Upper:	11.5 Vol %
· Vapor pressure at 20°C (68°F):	105 hPa
· Density:	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Solvent content:	
Organic solvents:	79.7 %

# **10 Stability and reactivity**

- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- $\cdot \textit{Dangerous reactions} \ No \ dangerous \ reactions \ known.$
- · Dangerous products of decomposition: No dangerous decomposition products known.

(Contd. on page 5)

USA

Printing date 05/21/2002

Reviewed on 05/13/2002

Trade name: D-528S

(Contd. of page 4)

#### **11 Toxicological information**

- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- 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.

## **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.

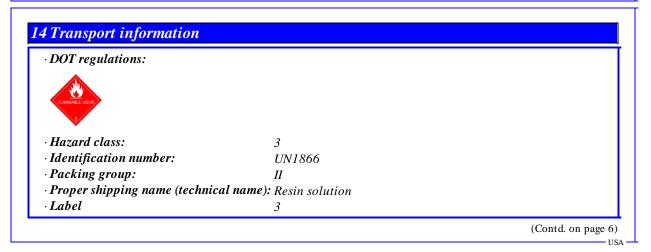
## **13 Disposal considerations**

· 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.



Printing date 05/21/2002

*Reviewed on 05/13/2002* 

Trade name: D-528S

(Contd.	of	page	5)

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# **15 Regulations**

Section 355 (extremely hazardous substances):	
None of the ingredient is listed.	
Section 313 (Specific toxic chemical listings):	
78-93-3 butanone	
9016-87-9 diphenylmethanediisocyanate,isomeres and homologues	
1330-20-7 xylene (mix)	
TSCA (Toxic Substances Control Act):	
78-93-3 butanone	
1333-86-4 Carbon black	
108-65-6 2-methoxy-1-methylethyl acetate	

Printing date 05/21/2002

*Reviewed on 05/13/2002* 

Trade name: D-528S

			(Contd. of page 6)
141-78-6 ethyl a	icetate		
9016-87-9 diphenylmethanediisocyanate,isomeres and homologues			
2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane			
123-86-4 n-butyl acetate			
1330-20-7 xylene			
77-58-7 dibuty	ltin dilaurate		
· Proposition 65			
· Chemicals known	to cause canc	er:	
None of the ingred	lients is listed.		
· Chemicals known	to cause repr	oductive toxicity:	
None of the ingred	lients is listed.		
· Cancerogenity ca · EPA (Environmer	-	n Agency)	
78-93-3 butan			D
		socyanate,isomeres and homologues	-
1330-20-7 xylene			D
		r Research on Cancer)	
1333-86-4 Carbo		Research on Cancer)	
1330-20-7 xylene			
· NTP (National To	· · · ·	ream)	
None of the ingred			
÷ 0		tablished by ACGIH)	
1333-86-4 Carbo		A4	
1330-20-7 xylene		A4 A4	
77-58-7 dibuty			
-			
		place Concentration)	
1333-86-4 Carbo		11 1	3
<u>^</u>	-	socyanate, isomeres and homologues	3
,	v	or Occupational Safety and Health)	
1333-86-4 Carbo			
· -	0.0	& Health Administration)	
None of the ingred	lients is listed		

### · Product related hazard informations:

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

· Hazard symbols:



Harmful Highly flammable

• Hazard-determining components of labelling: Aliphatisches Polyisocyanat

(Contd. on page 8)

Printing date 05/21/2002

Reviewed on 05/13/2002

(Contd. of page 7)

USA

### Trade name: D-528S

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	
diphenylmethanediisocyanate, isomeres and homologues • Risk phrases:	

Highly flammable. Irritating to eyes. May cause sensitization by inhalation and skin contact.

#### · Safety phrases:

Keep container in a well-ventilated place. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes. 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.

#### • National regulations:

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

#### · Classification according to VbF: A I

• Technical instructions (air):

Class	Share in %
Ι	2,5-10
Π	£ 2,5
III	50-100

· 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