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Safety data sheet

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 14.08.2015

Revision: 14.08.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: <u>DINITROL 517 B</u> 1.2 Relevant identified uses of the substance or mixture and uses advised against Sector of Use SU3, SU17, SU22 SU3, SU17, SU21, SU22 Product category PC1 Adhesives, sealants Process category PROC1-5, PROC7, PROC8a, PROC8b, PROC9-11, PROC13-14, PROC 19, PROC21 Environmental release category ERC5, ERC8c, ERC8d, ERC8f Article category Not applicable Application of the substance / the mixture Adhesives Uses advised against SU21 Consumer uses: Private households / general public / consumers

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Hersteller/ Producer: EFTEC AG, Hofstrasse 31, CH-8590 Romanshorn
EU-Importeur/ EU-Importer: EFTEC Ltd., Rhigos/Aberdare, GB-Mid Glamorgan CF44 9UE (Responsible for chemical registration in EU)
Lieferant/ Supplier: DINOL GmbH, Pyrmonterstrasse 76, D-32676 Lügde
Further information obtainable from: msds@dinol.com
1.4 Emergency telephone number: Giftnotruf D-Berlin +49(0)30 30686 790 Beratung in Deutsch und Englisch.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

GHS08

GHS08 health hazard

▼	
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Carc. 2 H351 Suspected of causing cancer.	
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2 H319 Causes serious eye irritation.	
Skin Sens. 1 H317 May cause an allergic skin reaction.	
STOT SE 3 H335 May cause respiratory irritation.	
<u>Classification according to Directive 67/548/EEC or Directive 1999/45/EC</u>	
Xn; Harmful	
R20-40-48/20: Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.	

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Vn. Song	(Contd. of page 1
Xn; Sens	itising
R42/43:	May cause sensitisation by inhalation and skin contact.
Xi; Irrita	nt
The product h preparations o Classification	Irritating to eyes, respiratory system and skin. oncerning particular hazards for human and environment: as to be labelled due to the calculation procedure of the "General Classification guideline for of the EU" in the latest valid version. system: ion is according to the latest editions of the EU-lists, and extended by company and literature data.
	ording to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation.
GHS07 GH	1508
Signal word L	Danger
Hazard-detern	nining components of labelling:
	inediisocyanate, isomeres and homologues
Hazard statem	
H315 Causes	skin irritation.
	serious eye irritation.
	use allergy or asthma symptoms or breathing difficulties if inhaled.
	use an allergic skin reaction.
	ed of causing cancer.
	use respiratory irritation.
	use damage to organs through prolonged or repeated exposure.
Precautionary	
P284	[In case of inadequate ventilation] wear respiratory protection.
P305+P351+	P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Additional inf	0
•	ains isocyanates. May produce an allergic reaction.
2.3 Other haze	
	T and vPvB assessment
PBT: Not app.	
vPvB: Not app	

TION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

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Dangerous components	::	
CAS: 9016-87-9 EC number: 618-498-9	diphenylmethanediisocyanate, isomeres and homologues Xn R20-40-48/20; Xn R42/43; Xi R36/37/38 Carc. Cat. 3 ⟨ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⟨ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	50-100%
CAS: 28553-12-0 EINECS: 249-079-5	di-"isononyl" phthalate substance with a Community workplace exposure limit	10-<25%

SVHC The mixture of substances contain no SVHC (Substances of Very High Concern, http://echa.europa.eu) Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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: Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.
5.2 Special hazards arising from the substance or mixture No further relevant information available.
5.3 Advice for firefighters
Protective equipment: Mount respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up: Pick up mechanically.
Ensure adequate ventilation.
6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling No special measures required. Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities 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 container tightly sealed. Maximum storage temperature: < 35 °C Minimum storage temperature: > 0 °C Storage temperature: 0 - 35 °C

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

	es that require monitoring at the workplace:	
9016-87-9 diphenylmethar	ediisocyanate,isomeres and homologues	
AGW (DACH)	Long-term value: 0,05 E mg/m ³ 1;=2=(I);DFG, H, Sah, Y, 12	
WEL (Great Britain englisl	a) Short-term value: 0,07 mg/m ³ Long-term value: 0,02 mg/m ³ Sen; as -NCO	

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Respiratory protection:



Use suitable respiratory protective device in case of insufficient ventilation.

Filter A **Protection of hands:**



Protective gloves (DIN EN 374)

Chemical resistant protective gloves with CE-labeling To minimise the wetness in the glove due to perspiration changing of gloves during a shift is required. Softening of the callus when wearing air-impermeable gloves is possible.

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Check the permeability prior to each anewed use of the glove. Material of gloves

Nitrile rubber, NBR

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:



Safety glasses (DIN EN 166)

Body protection:



Protective work clothing

9.1 Information on basic physical a	ind chemical properties	
General Information	ina chemicai properties	
Appearance:		
Form:	Fluid	
Colour:	Black	
Odour:	Uncharacteristic.	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	270 °C	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	400 °C	
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	0,4 Vol %	
Upper:	2,9 Vol %	
Vapour pressure:	Not determined.	
Density at 20 °C:	1,22 g/cm ³	
Relative density	Not determined.	

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Vapour density	Not determined. Not determined.	
Evaporation rate	Noi delerminea.	
Solubility in / Miscibility with water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/w	vater): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0,0 %	
Solids content:	100,0 %	
9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 20000 mg/kg (rat)

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral	LD50	> 10000 mg/kg (rat) (OECD-Prüfrichtlinie 401)
		> 9400 mg/kg (rabbit) (OECD-Prüfrichtlinie 402)
Inhalative	LC50/4h	310 mg/l (rat) (OECD-Prüfrichtlinie 403)

 Primary irritant effect:

 Skin corrosion/irritation

 Causes skin irritation.

 Serious eye damage/irritation

 Causes serious eye irritation.

 Respiratory or skin sensitisation

 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

 May cause an allergic skin reaction.

 CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

 Germ cell mutagenicity Based on available data, the classification criteria are not met.

 Carcinogenicity

 Suspected of causing cancer.

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Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure May cause respiratory irritation. STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

9016-87-9	diphenv	lmethane	diisocvanat	e.isomeres	and homologues

EC50/24h (static)> 1000 mg/l (daphnia) (OECD-Prüfrichtlinie 202)EC50/72h> 1640 mg/l (alga) (OECD-Prüfrichtlinie 201)LC50/96h (static)> 1000 mg/l (fish) (OECD-Prüfrichtlinie 203)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (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. 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

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

European waste catalogue

08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 04 00 wastes from MFSU of adhesives and sealants (including waterproofing products)

08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number ADR, ADN, IMDG, IATA

Void

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14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	Void	
14.4 Packing group ADR, IMDG, IATA	Void	
14.5 Environmental hazards: Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.	
UN ''Model Regulation'':	Void	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Technical instructions (air):

Class	Share in %
Ι	50-100

Other regulations, limitations and prohibitive regulations Substances of very high concern (SVHC) according to REACH, Article 57 The mixture of substances contain no SVHC (Substances of Very High Concern, http://echa.europa.eu)

EU-VOC: 0,00 %

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

Relevant phrases

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.

R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

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R40 R42/43 R48/20	Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation	(Contd. of page 8)
Departme Contact: Abbreviau ADR: Accon Carriage of IMDG: Inte IATA: Inter. GHS: Globe EINECS: EI ELINCS: EI CAS: Chem LC50: Leth PBT: Persis SVHC: Sub vPvB: very Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Resp. Sens. Skin Sens. 1 Carc. 2: Ca STOT SE 3:	Praimful: danger of serious damage to health by protonged exposure through inhalation ent issuing MSDS: Entwicklung msds@dinol.com tions and acronyms: rd européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the In Dangerous Goods by Road) rnational Maritime Code for Dangerous Goods national Air Transport Association illy Harmonised System of Classification and Labelling of Chemicals uropean Inventory of Existing Commercial Chemical Substances uropean Inventory of Existing Commercial Chemical Substances uropean List of Notified Chemical Substances ical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent tent, Bioaccumulative and Toxic stances of Very High Concern Persistent and very Bioaccumulative 4: Acute toxicity, Hazard Category 4 2: Skin corrosion/irritation, Hazard Category 2 Serious eye damage/eye irritation, Hazard Category 2 1: Sensitisation - Respirat., Hazard Category 1 : Sensitisation - Respirat., Hazard Category 1 rcinogenicity, Hazard Category 2 Specific target organ toxicity - Single exposure, Hazard Category 3 - Specific target organ toxicity - Repeated exposure, Hazard Category 2	
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