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# Safety data sheet

#### accord. to 1907/2006/EC, Art. 31, incl. Comm. Reg. (EU) No 453/2010

Printing date 21.07.2015

Revision: 20.07.2015

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

#### 1.1 Product identifier

Trade name: <u>DINITROL 512 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

GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

 $\frac{1}{\sqrt{2}}$  N; Dangerous for the environment

*R51/53:* Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. *Information concerning particular hazards for human 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.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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Trade name: DINITROL 512 B

Hazard pictograms



Signal word Void Hazard statements H411 Toxic to aquatic life with long lasting effects. Precautionary statements P273 Avoid release to the environment. P391 Collect spillage. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Additional information: EUH208 Contains 1-dodecycl-2-pyrrolidone, Dibutylbis(dodecylthio)-stannan. May produce an allergic reaction. 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

3.2 Chemical characterisation: Mixtures

**Description:** Adhesive

Dangerous compone	nts:	
	diethylmethylbenzenediamine	2,5-5%
	🗙 Xn R21/22-48/22; 🗙 Xi R36; 🏪 N R50/53	
	<ul> <li>STOT RE 2, H373;</li> <li>Aquatic Acute 1, H400; Aquatic Chronic 1, H410;</li> <li>Acute Tox. 4, H302; Acute Tox. 4, H312; Eye Irrit. 2, H319</li> </ul>	
	1-dodecycl-2-pyrrolidone	0,25-<1%
ELINCS: 403-730-1	🗾 C R34; 🗙 Xi R43; 🌄 N R50/53	
	Skin Corr. 1B, H314; 🕸 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🚯 Skin Sens. 1, H317	
	N-[3-(dimethylamino)propyl]-N,N',N'-trimethylpropane-1,3-diamine	<i>≤</i> 0,1%
EINECS: 223-362-3	🛃 C R34; 🗙 Xn R21/22	
	🛞 Acute Tox. 3, H311; 🚸 Skin Corr. 1B, H314; 🚸 Acute Tox. 4, H302	
CAS: 1185-81-5	Dibutylbis(dodecylthio)-stannan	<i>≤</i> 0,1%
EINECS: 214-688-7	🌉 T R60-61-25; 🗙 Xn R21/22-48-68; 🗙 Xi R38; 🗙 Xi R43; 🎇 N R50/53	
	Muta. 2, H341; Repr. 1A, H360;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1, H317	

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

After inhalation:

Supply fresh air; consult doctor in case of complaints.

Seek medical treatment in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

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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.

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

**6.3 Methods and material for containment and cleaning up:** Pick up mechanically.

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.

## **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: None.
Maximum storage temperature: < 35 °C</li>
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.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

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8.2 Exposure controls Personal protective equipment: General protective and hygienic measures: Wash hands before breaks and at the end of work. **Respiratory protection:** 



Not required.

**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. 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

# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical a General Information	nd chemical properties	
Appearance:		
Form:	Fluid	
Colour:	Black	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
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Boiling point/Boiling range:	270 °C	
Flash point:	190 °C	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	420 °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:	1,15 g/cm <sup>3</sup>	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wa	ter): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0,0 %	
Solids content:	99,5 %	
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 12777 mg/kg (rat)

Dermal LD50 570000 mg/kg (rabbit)

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68479-9	98-1 die	thylmethylbenzenediamine
		738 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
		odecycl-2-pyrrolidone
Oral	LD50	>5000 mg/kg (rat)
D 1	1 0 50	

Dermal LD50 >2000 mg/kg (rabbit)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity: No further relevant information available. 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. **Ecotoxical effects:** Remark: Toxic for fish 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. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms 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

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# Uncleaned packaging:

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

14.1 UN-Number	1013002
ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name ADR	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diethylmethylbenzenediamine, 1-dodecycl-2- pyrrolidone)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diethylmethylbenzenediamine, 1-dodecycl-2- pyrrolidone), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (diethylmethylbenzenediamine, 1-dodecycl-2- pyrrolidone)
14.3 Transport hazard class(es)	
ADR	
Class Label	9 (M6) Miscellaneous dangerous substances and articles. 9
IMDG, IATA	
Class Label	9 Miscellaneous dangerous substances and articles. 9
14.4 Packing group ADR, IMDG, IATA	111
14.5 Environmental hazards: Marine pollutant:	Product contains environmentally hazardous substances. Yes Symbol (fish and tree)
Special marking (ADR): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user Danger code (Kemler): EMS Number:	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F
14.7 Transport in bulk according to Ann Marpol and the IBC Code	

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Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities $(EQ)$	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities $(\widetilde{E}Q)$	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
Ŭ	LIQUID, N.O.S. (diethylmethylbenzenediamine, 1-dodecycl-2- pyrrolidone), 9, III

## **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:

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**

- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H341 Suspected of causing genetic defects.
- H360 May damage fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

#### R21/22 Harmful in contact with skin and if swallowed.

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	Toxic if swallowed.	
R34	Causes burns.	
R36	Irritating to eyes.	
R38 .	Irritating to skin.	
R43 .	May cause sensitisation by skin contact.	
R48	Danger of serious damage to health by prolonged exposure.	
	Harmful: danger of serious damage to health by prolonged exposure if swallowed.	
	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
	May impair fertility.	
	May cause harm to the unborn child.	
	Possible risk of irreversible effects.	
Devartn	nent issuing MSDS: Entwicklung	
-	: msds@dinol.com	
Abbrevi	ations and acronyms:	
	. 4: Acute toxicity, Hazard Category 4	
Acute Tox	. 3: Acute toxicity, Hazard Category 3	
	. 1B: Skin corrosion/irritation, Hazard Category 1B	
	2: Skin corrosion/irritation, Hazard Category 2	
-	2: Serious eye damage/eye irritation, Hazard Category 2	
	1: Sensitisation - Skin, Hazard Category 1 Germ cell mutagenicity, Hazard Category 2	
	Reproductive toxicity, Hazard Category 1A	
*	2: Specific target organ toxicity - Repeated exposure, Hazard Category 2	
Aquatic A	cute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1	
	hronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1	
	hronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2	