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### Safety data sheet

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

Printing date 13.10.2015 Revision: 13.10.2015

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

#### 1.1 Product identifier

Trade name: DINITROL RA 910 A1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Sector of Use 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

### 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



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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

R52/53: Harmful 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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#### Hazard pictograms





#### Signal word Danger

#### Hazard-determining components of labelling:

Calcium oxide

#### Hazard statements

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face 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.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

#### Additional information:

EUH208 Contains N-Phenyl-N-(trichlormethylsulfenyl)-benzolsulfonamid. 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 Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous compon	ents:	
CAS: 1305-78-8	Calcium oxide	1-5%
EINECS: 215-138-9	<b>★</b> Xi R37/38-41	
	Eye Dam. 1, H318; 🕔 Skin Irrit. 2, H315; STOT SE 3, H335	
CAS: 7704-34-9	sulphur, precipitated, sublimed or colloidal	1-5%
EINECS: 231-722-6	<b>★</b> Xi R38	
	<b>♦</b> Skin Irrit. 2, H315	
CAS: 14726-36-4	Zinc bis(dibenzyldithiocarbamate)	1-5%
EINECS: 238-778-0	R53	
	Aquatic Chronic 4, H413	
CAS: 1314-13-2	Zinc oxide	1-5%
EINECS: 215-222-5	N R50/53	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 119-47-1	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	0.1-19
EINECS: 204-327-1	<b>★</b> Xn R62	
	$\overline{R5}3$	
	<b>③</b> Repr. 2, H361; Aquatic Chronic 4, H413	
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Trade name: DINITROL RA 910 A1

CAS: 2280-49-1
EINECS: 218-915-0

| N-Phenyl-N-(trichlormethylsulfenyl)-benzolsulfonamid
| N-Phenyl-N-(trichlormethylsulfenyl)-benzolsulfenyl

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

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

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: 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: < 30 °C Minimum storage temperature: > 0 °C

Storage temperature: 0 - 30 °C

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

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#### 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 lin	Ingredients with limit values that require monitoring at the workplace:	
1305-78-8 Calcium	1305-78-8 Calcium oxide	
AGW (DACH)	Long-term value: 1E mg/m³ 2(I);Y, DFG	
MAK (Switzerland)	Short-term value: 2 e mg/m³ Long-term value: 2 e mg/m³ SSc;	
1314-13-2 Zinc oxi	de	
MAK (DACH)	Long-term value: 1A mg/m³ Rauch	
MAK (Switzerland)	Short-term value: $3$ a $mg/m^3$ Long-term value: $3$ a $mg/m^3$ (Rauch)	

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

#### 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.

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#### Eye protection:



Safety glasses (DIN EN 166)

### **Body protection:**



Protective work clothing

### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties **General Information** 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: > 300 °C > 180 °C Flash point: Flammability (solid, gaseous): Not applicable. > 300 °C Ignition temperature: Not determined. Decomposition temperature: Self-igniting: Product is not selfigniting. Danger of explosion: Product does not present an explosion hazard. **Explosion limits:** Not determined. Lower: Not determined. Upper: Vapour pressure: Not determined. Density at 20 °C:  $1,42 \text{ g/cm}^3$ Relative density Not determined. Vapour density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Not miscible or difficult to mix. water: Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Not determined.

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Kinematic:	Not determined.
Solvent content: Organic solvents:	0,0 %
Solids content: 9.2 Other information	100,0 % 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

Harmful if swallowed.

LD/LC50	values rele	vant for classification:
Oral	LD50	1015 mg/kg (rat)

#### 1314-13-2 Zinc oxide

Oral	LD50	>7950 mg/kg (rat)
Inhalative	LC50/4h	>2500 mg/l (rat)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye damage.

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.

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Ecotoxical effects: Remark: Harmful to 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.

Harmful to 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
	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.

14.1 UN-Number	
ADR, ADN, IATA	Void
IMDG	UN3082
14.2 UN proper shipping name	
ADR, ADN, IATA	Void
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII
	N.O.S. (Zinc bis(dibenzyldithiocarbamate), Zinc oxide),
	MARINE POLLUTANT
14.3 Transport hazard class(es)	
ADR, ADN, IATA	
Class	Void
IMDG	
Class	9 Miscellaneous dangerous substances and articles.
Label	9

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14.4 Packing group	
ADR, IATA	Void
IMDG	III
14.5 Environmental hazards:	Product contains environmentally hazardous substances.
Marine pollutant:	No
-	Symbol (fish and tree)
14.6 Special precautions for user	Not applicable.
EMS Number:	F- $A$ , $S$ - $F$
Stowage Category	A
14.7 Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
IMDG	
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
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:

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: 0.05 %

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.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

R37/38 Irritating to respiratory system and skin.

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R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R53 May cause long-term adverse effects in the aquatic environment.

*R62 Possible risk of impaired fertility.* 

#### Department issuing MSDS: Entwicklung

#### Contact: msds@dinol.com Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

 ${\it CAS: Chemical Abstracts Service (division of the American Chemical Society)}$ 

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4

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