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Safety data sheet

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

Printing date 26.05.2015 Revision: 26.05.2015

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

1.1 Product identifier

Trade name: DINITROL F 500

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

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 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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



Xn; Sensitising

May cause sensitisation by inhalation.

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:

diphenylmethane-4,4'-di-isocyanate

Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

P285 In case of inadequate ventilation wear respiratory protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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

Additional information:

EUH204 Contains isocyanates. 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: Mixture of substances listed below with nonhazardous additions.

| Dangerous compon | ents: | |
|--------------------------------------|---|---------|
| CAS: 28553-12-0 EINECS: 249-079-5 | di-''isononyl'' phthalate substance with a Community workplace exposure limit | 25-50% |
| CAS: 1333-86-4 EINECS: 215-609-9 | Carbon black substance with a Community workplace exposure limit | 10-<25% |
| CAS: 101-68-8 EINECS: 202-966-0 | diphenylmethane-4,4'-di-isocyanate 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 | 0.3-<1% |

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.

After swallowing: Call for a doctor immediately.

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

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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:** 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.

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.

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:

28553-12-0 di-''isononyl'' phthalate

WEL Long-term value: 5 mg/m³

1333-86-4 Carbon black

WEL Short-term value: 7 mg/m³
Long-term value: 3.5 mg/m³

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

WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³

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. Wash hands before breaks and at the end of work.

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.

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

GB

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| 9.1 Information on basic physical a | and chamical proporties |
|---|---|
| General Information on basic physical a | 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: | 164 °C |
| Flammability (solid, gaseous): | Not applicable. |
| Ignition temperature: | > 300 °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: | 1.21 g/cm^3 |
| 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/wat | t er): Not determined. |
| Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| Solvent content: | |
| Organic solvents: | 0.0 % |
| Solids content: | 99.8 % |
| 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

10.1 Reactivity

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.

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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:

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

 Oral
 LD50
 4700 mg/kg (rat)

 Inhalative
 LC50/4h
 370 mg/l (rat)

Primary irritant effect:

on the skin: No irritant effect. on the eye: No irritating effect.

Sensitisation: Sensitisation possible through inhalation.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification

Guidelines for Preparations as issued in the latest version:

Harmful

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

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

EC50 > 100 mg/l (bacteria)
EC50/24h > 1000 mg/l (daphnia)
LC50 > 100 mg/l (fish)
LC50/96h > 1000 mg/l (fish)

- 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.

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Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

| SECTION 14: Transport informat | tion | |
|--|-----------------------------|--|
| 14.1 UN-Number ADR, ADN, IMDG, IATA | Void | |
| 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 Anne MARPOL73/78 and the IBC Code | ex II of Not applicable. | |
| UN "Model Regulation": | - | |

SECTION 15: Regulatory information

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

National regulations:

Technical instructions (air):

| Class | Share in % |
|-------|------------|
| I | 0.3-<1 |

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.

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| Н334 Н335 Н351 Н373 | (Contd. of page 7) May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. |
|------------------------------|---|
| R20 | Harmful by inhalation. |
| | 8 Irritating to eyes, respiratory system and skin. |
| R40 | Limited evidence of a carcinogenic effect. |
| R42/43 | May cause sensitisation by inhalation and skin contact. |
| R48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation. |
| - | ent issuing MSDS: Entwicklung msds@dinol.com |
| | |
| | ttions and acronyms: 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 |
| | 1: Sensitisation - Skin, Hazard Category 1 arcinogenicity, Hazard Category 2 |
| | arcinogenicity, Hazara Category 2 : Specific target organ toxicity - Single exposure, Hazard Category 3 |
| | 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 |
| | ompared to the previous version altered. |
| | |