

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.05.2014

Version number 4

Revision: 06.05.2014

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

- **1.1 Product identifier**
- **Trade name:** TECFLEX 500
- **Article number:** SP0500/8
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Sealant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Den Braven France s.a.r.l.
Zone Industrielle du Meux, BP 20114
60880 LE MEUX Cédex
FRANCE
ohuss@denbraven.fr
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:** During normal opening times: +33 3 44 91 68 68

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
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.
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements**
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**
Contains dibutyltin dilaurate, Bis(1,2,2,6,6-pentaméthyl-4-piperidyl)sebacate, N-(3-(trimethoxysilyl)propyl) ethylenediamine. 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 characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.05.2014

Version number 4

Revision: 06.05.2014

Trade name: TECFLEX 500

(Contd. of page 1)

| · Dangerous components: | | |
|---|--|----------|
| EC number: 907-495-0 | Reaction product of decanoic acid, 12-hydroxystearic acid and 1,2 ethanediamine R52 ----- Aquatic Chronic 3, H412 | 2.5-10% |
| CAS: 2768-02-7 EINECS: 220-449-8 | trimethoxyvinylsilane ☒ Xn R20 R10 ----- ☒ Flam. Liq. 3, H226; ☒ Acute Tox. 4, H332 | 1.0-2.5% |
| CAS: 64741-65-7 EC number: 920-901-0 | Naphtha (petroleum), heavy alkylate ☒ Xn R65 R66 ----- ☒ Asp. Tox. 1, H304 | 1.0-2.5% |
| CAS: 64-17-5 EINECS: 200-578-6 | ethanol ☒ F R11 ----- ☒ Flam. Liq. 2, H225 | 1.0-2.5% |
| CAS: 1760-24-3 EINECS: 217-164-6 | N-(3-(trimethoxysilyl)propyl)ethylenediamine ☒ Xn R20; ☒ Xi R41; ☒ Xi R43; ☒ N R51/53 ----- ☒ Eye Dam. 1, H318; ☒ Aquatic Chronic 2, H411; ☒ Acute Tox. 4, H332; Skin Sens. 1, H317 | 0.1-1.0% |
| CAS: 77-58-7 EINECS: 201-039-8 | dibutyltin dilaurate ☒ T Repr. Cat. 2 R60-61-48/25; ☒ C R34; ☒ Xn R68; ☒ Xi R43; ☒ N R50/53 Muta. Cat. 3 ----- ☒ Muta. 2, H341; Repr. 1B, H360; STOT SE 1, H370; STOT RE 1, H372; ☒ Skin Corr. 1B, H314; ☒ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☒ Acute Tox. 4, H302; Skin Sens. 1, H317 | 0.1-1.0% |
| CAS: 41556-26-7 EINECS: 255-437-1 | Bis(1,2,2,6,6-pentaméthyl-4-piperidyl)sebacate ☒ Xi R43; ☒ N R50/53 ----- ☒ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☒ Skin Sens. 1, H317 | 0.1-1.0% |

· **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.
- **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:** If symptoms persist consult doctor.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

SECTION 6: Accidental release measures

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

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.05.2014

Version number 4

Revision: 06.05.2014

Trade name: TECFLEX 500

(Contd. of page 2)

- **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 precautions are necessary if used correctly.
Ensure good ventilation/exhaustion at the workplace.
- **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:**
Do not store together with oxidizing and acidic materials.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **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 (10-25%) | |
| WEL | Long-term value: 5 mg/m ³ |
| 64-17-5 ethanol (1.0-2.5%) | |
| WEL | Long-term value: 1920 mg/m ³ , 1000 ppm |
| 77-58-7 dibutyltin dilaurate (0.1-1.0%) | |
| WEL | Short-term value: 0.2 mg/m ³ Long-term value: 0.1 mg/m ³ as Sn; Sk |

- **Additional Occupational Exposure Limit Values for possible hazards during processing:**

| | |
|-------------------------|---|
| 67-56-1 methanol | |
| WEL | Short-term value: 333 mg/m ³ , 250 ppm Long-term value: 266 mg/m ³ , 200 ppm Sk |

- **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.

Do not eat, drink, smoke or sniff while working.

- **Respiratory protection:** Not required.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.05.2014

Version number 4

Revision: 06.05.2014

Trade name: TECFLEX 500

(Contd. of page 3)

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

| | |
|----------------|-----------------|
| Form: | Pasty |
| Colour: | Various colours |
| Odour: | Characteristic |

· **Flash point:** > 65 °C

· **Ignition temperature:** 420 °C

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

| | |
|---------------|-----------|
| Lower: | 0.1 Vol % |
| Upper: | 0.2 Vol % |

· **Vapour pressure:** Not determined.

· **Density at 20 °C:** 1.44 g/cm³

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

· **Viscosity:**

Dynamic at 20 °C: 720000 mPas

· **Solvent content:**

| | |
|-----------------|----------|
| VOC (EC) | 4.99 % |
| VOC (EC) | 71.8 g/l |

· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· **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:**

Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)
silicon dioxide (SiO₂)

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 4

Revision: 06.05.2014

Trade name: TECFLEX 500

(Contd. of page 4)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

2768-02-7 trimethoxyvinylsilane

| | | |
|------------|----------|---------------------|
| Oral | LD50 | 7120 mg/kg (rat) |
| Dermal | LD50 | 3540 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 16.8 mg/l (rat) |

77-58-7 dibutyltin dilaurate

| | | |
|------|------|-----------------|
| Oral | LD50 | 175 mg/kg (rat) |
|------|------|-----------------|

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
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**

| | |
|-----------|--|
| 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.

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(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.05.2014

Version number 4

Revision: 06.05.2014

| |
|--------------------------------|
| Trade name: TECFLEX 500 |
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(Contd. of page 5)

SECTION 14: Transport information

| | |
|---|-----------------|
| · 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 Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

SECTION 15: Regulatory information

- **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**

- H225 Highly flammable liquid and vapour.
 - H226 Flammable liquid and vapour.
 - H302 Harmful if swallowed.
 - H304 May be fatal if swallowed and enters airways.
 - H314 Causes severe skin burns and eye damage.
 - H317 May cause an allergic skin reaction.
 - H318 Causes serious eye damage.
 - H332 Harmful if inhaled.
 - H341 Suspected of causing genetic defects.
 - H360 May damage fertility or the unborn child.
 - H370 Causes damage to organs.
 - H372 Causes damage to organs through prolonged or repeated exposure.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.
 - H411 Toxic to aquatic life with long lasting effects.
 - H412 Harmful to aquatic life with long lasting effects.
-
- R10 Flammable.
 - R11 Highly flammable.
 - R20 Harmful by inhalation.
 - R34 Causes burns.
 - R41 Risk of serious damage to eyes.
 - R43 May cause sensitisation by skin contact.
 - R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.
 - R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

(Contd. on page 7)

Safety data sheet

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Trade name: TECFLEX 500

(Contd. of page 6)

- R52 Harmful to aquatic organisms.
- R60 May impair fertility.
- R61 May cause harm to the unborn child.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R68 Possible risk of irreversible effects.

· **Department issuing MSDS:** Product safety department

· **Contact:** Mr. Huss

· **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 Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

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

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

Muta. 2: Germ cell mutagenicity, Hazard Category 2

Repr. 1B: Reproductive toxicity, Hazard Category 1B

STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

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

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

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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

· *** Data compared to the previous version altered.**