

Teak Solutions ME100B – HARDENER

Material Safety Data Sheet

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Date: 10.01.2014

Epoxy B component

Revised:

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product name: TS ME100B
PR-no.: -
Product type: Amine blend
Supplier: Teak Solutions S.L.
Paseo Juan de Borbon, 80-84 Local K
ES-80003 Barcelona.
Spain
e-mail: info@teaksolutions.com

Contact numbers / Emergency: Tel. +34 932 217 774 / +45 23 48 56 79.

Vat no. ESB65842932

2. HAZARDS IDENTIFICATION

2.1 Classification of mixture according to CLP - Regulation

Acute Tox. 4, H302
Skin Corr. 1B H314
Eye Dam. 1 H318
Aquatic chronic 3 H412



Danger

Harmful in contact with skin. Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

3. COMPOSITION/DATA ON COMPONENTS

Preparation description: Cycloaliphatic amine

| Name of substance | Cas nr: | EINECS | Weight%: | Signalword: | H-sentences: |
|------------------------|--------------|-----------|----------|-------------|--------------------------|
| Cashew nutshell liquid | 8007-24-7 | - | 4-7 | - | - |
| Alkyl Phenol polyamine | Trade secret | - | 26-30 | - | - |
| Polyoxypropylendiamine | 9046-10-0 | - | 18-22 | Danger | H302, 314, 318, 412 |
| Polyethylenpolyamine | 68410-23-1 | - | 25-28 | Danger | H318 Eye dam.1 |
| Tetraethylendiamine | 112-57-2 | 203-986-2 | 5-8 | Danger | H302, 312, 314, 317, 411 |
| Triethanolamin | 102-71-6 | 203-049-8 | 1-2 | - | - |

Please see point 15 for the full text of the H-phrases.

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4. FIRST AID MEASURES

| | |
|-------------------------|---|
| Symptoms and effects: | Irritation of the skin and eyes. |
| First Aid - Inhalation: | No specific measures |
| First Aid - Skin: | Do not delay. Remove contaminated clothing. Wash skin with water using soap if available. |
| | If persistent irritation occurs, obtain medical attention. |
| First Aid - Eye: | Do not delay. Flush eye with water. If persistent irritation occurs, obtain medical attention |
| | immediately. |
| First Aid - Ingestion: | Do not induce vomiting. In the unlikely event of ingestion, obtain medical attention immediately. |
| Advice to Physicians: | If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not be allowed. |

5. FIRE FIGHTING MEASURES

| | |
|-----------------------------------|---|
| Special hazards: | Not classified as flammable, but will burn. Carbon monoxide may be involved incomplete combustion occurs. |
| Extinguishing media- small fires: | Dry chemical powder, carbondioxide foam, water spray or fog, sand or earth. |
| Large fires: | Foam, water spray or fog. |
| Unsuitable extinguishing media: | Water in a jet. |
| Protective equipment: | Full protective clothing and self contained breathing apparatus. |
| Other information | Keep adjacent containers cool by spraying with water. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------------|---|
| Personal precautions: | Avoid contact with skin, eyes and clothing |
| Personal protection: | Wear protective clothing specified for normal operations (see section 8). |
| Environmental precautions: | Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. If materials enters drains it should be pumped out into a open vessel. Emergence services may need to be called to assist in this operation. |
| Clean-up methods- small spillage: | Absorb or contain liquid with sand, earth or spill control material. Shovel material to labelled sealable container for safe disposal. |
| Large spillage: | Transfer to a labelled container for product recovery or safe disposal. Otherwise treat as for small spillage. |

7. HANDLING AND STORAGE

| | |
|-----------------------|--|
| Handling: | Avoid contact with skin, eyes and clothing |
| Storage: | Keep container tightly closed and dry. Palletised loads should be stacked to a maximum of 4 high. Protect from heat, moisture and direct sunlight. |
| Storage temperatures: | Ambient. |

8. EXPOSURE CONTROLS/ personal protection

Protective gloves and safety goggles

| | |
|-------------------------|--|
| Respiratory protection: | Not normally required. In a confined space wear half mask respirator with organic vapour cartridge and build-in particular filter NPF 20 (gas only). If product is applied by spraying wear self contained breathing apparatus. |
|-------------------------|--|

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Hand protection: Nitride rubber gloves or butyl rubber gloves, gauntlet type according to EN 374.
Eye protection: Monogoggles.
Body protection: Standard issue work clothes, safety boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste
Colour: Reddish
Odour: none
Density: 750 - 850 kg/m³ @ 25 °C (typical)

Dynamic viscosity: Thixotropic

Flash point: > 93 °C

Ignition temperature > 200 C

Vapour pressure < 5hPa @ 50gr.C

Solubility in water Partly

N-octanol/water partition coefficient Data not available

0 % Organic solvents and water !

10. STABILITY/REACTIVITY

Stability: Stable under normal use conditions. Reacts with monomers, resins and strong oxidising agents
Conditions to avoid: Monomers, resins, water and oxidising agents
Materials to avoid: As above
Hazardous decomposition products: Hazardous decomposition products are not expected to form during normal storage.

11. TOXICOLOGICAL INFORMATION

Basis for assessment: Information given is based on data on the components and the toxicology of similar products.

Acute Toxicity: Polyoxyalkylenamine (CAS 9046-10-0)
Eyes: Corrosive to eyes. Causes burns.
Skin: Corrosive to the skin. Causes burns.
Respiratory irritation: Avoid breathing fumes which can cause irritation and sensitisation of the respiratory organs
Ingestion: Harmful if swallowed. May cause burns to mouth, throat and stomach.
Skin sensitisation: Guinea pig not sensitizing
LD50 Dermal Male, female and rabbit: 2090 mgKg
LD50 Oral Male, Female and rat 475 mg/Kg
Potential chronic health effects:
Chronic effects: No known significant effects or critical hazards.
Target organs: None known.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.

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| Teratogenicity: | No known significant effects or critical hazards. |
| Fertility effects: | No known significant effects or critical hazards. |
| Developmental effects: | No known significant effects or critical hazards. |
| Acute Toxicity: | Polyethylenpolyamin (CAS 68410-23-1) |
| Eyes: | Corrosive to eyes. Causes burns. |
| Skin: | Corrosive to the skin. Causes burns. |
| Respiratory irritation: | Avoid breathing fumes which can cause irritation and sensitisation of the respiratory organs |
| Ingestion: | Harmful if swallowed. May cause burns to mouth, throat and stomach. |
| LD50 Dermal | Male, female and rabbit: 660 mgKg |
| LD50 Oral | Male, Female and rat 2140 mg/Kg |
| Potential chronic health effects: | |
| Chronic effects: | No known significant effects or critical hazards. |
| Target organs: | None known. |
| Carcinogenicity: | No known significant effects or critical hazards. |
| Mutagenicity: | No known significant effects or critical hazards. |
| Teratogenicity: | No known significant effects or critical hazards. |
| Fertility effects: | No known significant effects or critical hazards. |
| Developmental effects: | No known significant effects or critical hazards. |

12. ECOLOGICAL INFORMATION

| | | | |
|---------------|--------------|----------------|-------------------|
| CAS 9046-10-0 | | | |
| Acute EC50 | exposure 48h | Specie: dafnie | Result: 15 mg/L |
| Acute IC50 | exposure 72h | Specie: Algea | Result: 135 mg/L |
| Acute LC50 | exposure 96h | Specie: fish | Result: >100 mg/L |

| | | | |
|----------------|--------------|----------------|-------------------|
| CAS 68410-23-1 | | | |
| Acute EC50 | exposure 48h | Specie: dafnie | Result: 24,1mg/L |
| Acute IC50 | exposure 72h | Specie: Algea | Result: 6.8 mg/L |
| Acute LC50 | exposure 96h | Specie: guppy | Result: >420 mg/L |

Harmful to aquatic environment. Do not allow to reach ground water or sewage system.

Biodegradability: Not readily according to OECD/EU

13. DISPOSAL CONSIDERATIONS

| | |
|-------------------|---|
| Precautions: | See section 8. Refer to section 7 before handling the product or containers. |
| Waste disposal: | Recover or recycle if possible. Otherwise incineration or dispose to licensed contractor. |
| Product disposal: | Drain container thoroughly. Rinse three times with suitable solvent. Treat rinses as for product disposal. After Draining, vent in a safe place away from sparks and re. Send to drum recovered or metal reclaimed. |

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14. TRANSPORT INFORMATION



land

UN-nr: 2735
Shipping name:

ADR/RID-class: 8
Amine, liquid corrosive n.o.s. (contains Polyoksoalkyleneamine)

Packaging gr.: III



sø

IMDG-class: 8
Shipping name:

Packaging gr. III
Amine, liquid corrosive n.o.s. (contains Polyoksoalkyleneamine)

UN-nr.: 2735 EmS: F-A,S-B



luft

IATA-class: 8
Shipping name:

UN-nr.: 2735
Amine, liquid corrosive n.o.s. (contains Polyoksoalkyleneamine)

Packaging gr. III

15. REGULATORY INFORMATION

According to the CLP – Regulation the product is labelled as follows:



DANGER

Contains: Polyoxypropylenediamine; Polyethylenpolyamin

H-phrases: H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye irritation.
H411: Toxic to aquatic life with long lasting effects
H412: Harmful to aquatic life with long lasting effects.



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P-phrases: P262: Do not get in eyes, on skin, or on clothing.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+ P352: **IF ON SKIN:** Wash with plenty of soap and water
P305+P351+ P338: **IF IN EYES:** Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.

16. OTHER INFORMATION

Uses and restrictions: Compositions for the building and civil engineering industries e.g. flooring compounds, adhesives, mortars and solvent free high-solid coatings, laminating binders. Composites industry curing agent for industrial useage.

MSDS distribution: This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety matters.

Other information:

DISCLAIMER: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as quarantining any specific property of the product.

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Rapallo Resins Aps
Karetmagervej 19C
DK – 7100 Vejle
Phone: +45 23 48 56 79