

Teak Solutions ME100A – RESIN

Material Safety Data Sheet

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Epoxy A component

Date: 10.01.2014
Revised:

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product name: TS ME100A
PR-no.: 2371412
Product type: Epoxy resin
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.

Eye irrit. 2 H 319
Skin irrit. 2 H 315
Skin Sens. 1 H 317
Aquatic Chronic 2 H 411



GHS07



GHS09

WARNING

Causes serious Eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

DK MAL Code: 00-5

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Name of substance	Cas nr:	EINECS	Weight%:	Signalword	H-sentences:
Bisphenol-A-diglycidylether reaktionsprodukt, mol wt <700	25068-38-6	500-033-5	50-60	Warning	319, 315, 317, 411
Bisphenol-F-epichlorhydrin epoxy	9003-36-5	-	20-27	Warning	319, 315, 317, 411
Cashew nutshell oligomeric react.	68413-24-1	-	5-12	Warning	317
Cashew nutshell oligomeric react.	68390-54-5	-	5-10	Warning	317

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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.
Storage temperatures:	Ambient.

8. EXPOSURE CONTROLS/ personal protection

Occupational exposure standards:	None established.
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.
Hand protection:	Nitrile rubber gloves or butyl rubber gloves, gauntlet type > 0,4mm
Eye protection:	Monogoggles.
Body protection:	Standard issue work clothes, safety boots.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Colour:	Green
Odour:	Slight
Density:	970 - 1060 kg/m ³ @ 25 °C (typical)
Dynamic viscosity:	n.a. Pa.s @ 25 °C - Thixotropic
Vapour Pressure at 20degr.	0,0000046 hPa (BPA)
Boiling point:	< 200 °C
Flash point:	>204 °C
Ignition point:	400 °C
Solubility in water	Negligible
Organic solvents:	0.0 %

10. STABILITY/REACTIVITY

Stability:	Stable under normal use conditions. Reacts with strong oxidising agents. Polymerises exothermically with amines, mercaptens and Lewis acids at ambient temperature and above. Polymerises in contact with bases (eg caustic soda), ammonia, primary and secondary amines, alcohol's and acids.
Conditions to avoid:	Caustic soda can induce a vaporous polymerisation at temperatures over 150 °C.
Materials to avoid:	Strong oxidising agents. Caustic soda.
Hazardous decomposition products:	Hazardous decomposition products are not expected to form during normal storage.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute toxicity - oral:	LD50 (rat) > 10000 mg/kg..CAS 25068-38-6 LD50 (rat) > 2000 mg/kg..CAS 9003-36-5 LD50 (rat) 44.444 mg/kg CAS 68390-54-5
Eye irritation:	Irritant.
Skin irritation:	Irritant.
Respiratory irritation:	Not irritating.
Skin sensitisation:	Skin sensitiser.
Carcinogenicity:	A recent review of the available data by the International Agency for Research on Cancer (IARC), has concluded that DGEBA is not classifiable as to its carcinogenicity.
Mutagenicity:	Positive in vitro, but negative in vivo assays.

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12. ECOLOGICAL INFORMATION

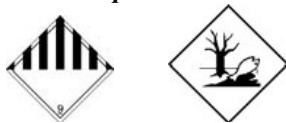
Basis for assessment:	Information given based on data on the components and the ecotoxicology of similar products.
Mobility:	Sinks in water.
Persistence/degradability:	CAS 68413-24-1 Biodegradation 95%
Bioaccumulation:	Has the potential to bioaccumulate CAS 25068-38-6
Acute toxicity - fish:	Toxic, $1 < LC50 \geq 10$ mg/l.
Sewage treatment:	Toxic, $EC50 > 1 - 10$ mg/l, to organisms in sewage treatments plants. Toxic to aquatic organisms
EC50/48hours:	Daphnie 2.8 mg/l CAS 25068-38-6
EC50/96hours:	Algae 220 mg/l CAS 25068-38-6
LC50/96 hours:	Carp 3.6 mg/l CAS 25068-38-6

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.
Local legislation:	Control of Pollution Act 1974. Control of Pollution (Special waste) Regulations 1980. Environmental Protection Act 1990.
EU Waste Code	08 01 11

14. TRANSPORT INFORMATION

Land transport ADR



ADR class: 9 Miscellaneous dangerous substances and articles.

· **Danger code (Kemler):** 90

· **UN-Number:** 3082

· **Packaging group:** III

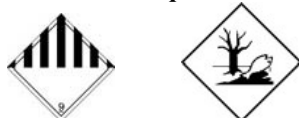
· **Hazard label** 9

· **Special marking:** Symbol (fish and tree)

· **Description of goods:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide resin)

Tunnel restriction code: _E

Maritime transport IMDG:



IMDG Class: 9

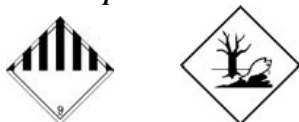
· **UN Number:** 3082

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- **Label 9**
- **Packaging group: III**
- **Marine pollutant: Yes**
- Symbol (fish and tree)
- **Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide resin)**

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 9

- **UN/ID Number: 3082**
- **Label 9**
- **Special marking: Symbol (fish and tree)**
- **Packaging group: III**
- **Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide resin)**

15. REGULATORY INFORMATION

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



WARNING

Contains:	Epoxy resin (Number average, Molecular weight < 700).
H - phrases:	H 319: Causes serious eye irritation. H 315: Causes skin irritation. H 317: May cause an allergic skin reaction. H 411: Toxic to aquatic life with long lasting effects.
P - phrases:	P 262: Do not get in eyes, on skin, or on clothing. P 273: Avoid release to the environment. P 280: Wear protective gloves/protective clothing/eye protection/face protection. P 302+P 352: IF ON SKIN: Wash with plenty of soap and water. P 305+P 351+P 338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P 337+P 313: If eye irritation persists: Get medical advice/attention.
Regulation	Water : WGK 2

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16. OTHER INFORMATION

EINECS :	All components listed.
MITI (Japan):	All components listed.
TSCA (USA):	All components listed.
AICS (Australia):	All components listed.
DSL (Canada):	All components listed.
Uses and restrictions:	- Compositions for the building and civil engineering industries e.g. flooring compounds, primers, adhesives, mortars, joints and grouts - Offshore & Marine applications
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:	All information is given in good faith

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 a guarantee of any specific property of the product.

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