

Teak Solutions FE50B – HARDENER

Material Safety Data Sheet

Date: 20.08.2013

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product name: TS FE50B hardener
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
Causes skin irritation H315
May cause an allergic skin reaction H317
Eye Dam. 1 H318
Causes serious eye irritation H319
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:
Alkylated Phenol polyamine	68413-28-5	-	16-21	Danger	H315, 317, 319
Polyethylenpolyamine	68410-23-1	-	50-57	Danger	H318 Eye dam.1
Tetraethylendiamine	112-57-2	203-986-2	12-16	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.
First Aid - Eye:	If persistent irritation occurs, obtain medical attention. 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.
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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Colour:	light blue
Odour:	none
Density:	850 - 950 kg/m ³ @ 25 °C (typical)
Dynamic viscosity:	Thixotropix
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:	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.

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12. ECOLOGICAL INFORMATION

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.

14. TRANSPORT INFORMATION



UN-nr:	2735	ADR/RID-class: 8	Packaging gr.: III
Shipping name:	Amine, liquid corrosive n.o.s. (contains Polyoksoalkyleneamine)		



IMDG-class: 8	Packaging gr. III	UN-nr.: 2735	EmS: F-A,S-B
Shipping name:	Amine, liquid corrosive n.o.s. (contains Polyoksoalkyleneamine)		



IATA-class: 8	UN-nr.: 2735	Packaging gr. III
Shipping name:	Amine, liquid corrosive n.o.s. (contains Polyoksoalkyleneamine)	

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15. REGULATORY INFORMATION

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



DANGER

Contains: Polyoxypropylenediamine; Polyethylenpolyamin

H-phrases: H312: Harmful in contact with skin.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction
H318: Causes serious eye irritation.
H411: Toxic to aquatic life with long lasting effects
H412: Harmful to aquatic life with long lasting effects.

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 usage.

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.