

MATERIAL SAFETY DATA SHEET

Edition January 2010

Product name : *FIWA fire safe, water repellent sealant*

1- IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product name : FIWA
Supplier : BEELE Engineering BV, Beunkdijk 11, 7122 NZ AALTEN,
The Netherlands
Telephone : +31 (0)543 461629
Fax : +31 (0)543 461786
E-mail : info@beele.com

2- COMPOSITION / INFORMATION ON THE INGREDIENTS

Chemical composition : Mixture of polydimethylsiloxane, fire retardant fillers and crosslinker
Colour : Grey
Hazardous components : OXIMINOSILANE(S) (CAS: 2224-33-1 & 22984-54-9): < 5%
-EEC Classification: Xi;R36
3-AMINOPROPYLTRIEHOXYSILANE (CAS: 919-30-2): < 5%
-EEC Classification: C;R22-34
Further information : When exposed to air humidity release of:
2-BUTANONE OXIME (CAS: 96-29-7): 1,2% (max) on pure polymer,
0.7% in composition
-EEC Classification: Xi;R36-43

3- HAZARDS IDENTIFICATION

Human health effects : May cause slight irritation to skin or eyes and an allergic reaction.
Environmental effects : Does not present particular risk to the environment, provided the disposal (see section 13) is in accordance with national or local regulations.
Specific hazards : According to EEC criteria, this product is not classified as a hazardous preparation.
Further information : Smoke and toxicity tests acc. to Naval Engineering Standard are performed with positive results.

4- FIRST AID MEASURES

Inhalation : Affected person should be removed from the contaminated area into fresh air.
Skin contact : Wipe off using a clean, soft, absorbent material.
Eye contact : If substance has got into the eyes, immediately wash out with plenty of water until medical assistance is provided.
Retract eyelids often. Consult a physician immediately.
Hygiene measures : Exercise good industrial hygiene practice. Wash after handling, especially before eating

5- FIRE FIGHTING MEASURES

Properties : Combustible at temperatures above 400 °C.
Extinguishing media : Foam, CO₂, dry powder, water spray
Special exposure hazards : In case of fire and/or explosion do not breathe fumes
Protective equipment : Wear breathing apparatus

6- ACCIDENTAL RELEASE MEASURES

Personal precautions : Avoid contact to the skin and eyes. Do not breathe vapours.
Ventilate the spillage area mechanically.
Environmental precautions : This product does not present a particular risk to the environment
Methods for cleaning : Take up mechanically. Do not empty into drains.
Transfer to a container for disposal.

MATERIAL SAFETY DATA SHEET

Edition January 2010

Product name : *FIWA fire safe, water repellent sealant*

7- HANDLING AND STORAGE

Handling : Ventilation. Work in well-ventilated room.
Storage : Store between 5 °C and 40 °C. No further specific measures necessary.
Packaging : Polyethylene cartridges.
Further information : The product cures under exposure to air humidity.

8- EXPOSURE CONTROL/PERSONAL PROTECTION

Mechanically : Ensure good ventilation of the work area.
Control parameters : Limits (USA/ACGIH): 2-Butanone oxime: no specific limit.
Proposed limits: 2-Butanone oxime: 3 ppm TWA and 10 ppm STE
(measured <1ppm TWA)
Personal protection : Wear protective clothing and chemical safety glasses.
Respiratory protection : In the event of insufficient ventilation: respiratory protective device with a gas filter.
Hand protection : Wear rubber gloves.
Eye protection : Chemical safety glasses.
Skin protection : Minimize skin contact.

9- PHYSICAL AND CHEMICAL PROPERTIES

Appearance : thixotropic paste
Odour : ethereal, slight amine
Density at 23 °C : 1.3 g/cm³
Softening point : Not applicable
Melting point : Not applicable
Flammability : LOI index = 43%
Oxidizing properties : Non-oxidizing material according to EEC criteria
Solubility : Insoluble

10- STABILITY AND REACTIVITY

Stability : Stable under normal usage conditions
Conditions to avoid : None known
Materials to avoid : None known
Hazardous decomposition products : In case of fire CO, CO₂, oxides of silicone and oxides of nitrogen; during normal curing 2-butanone oxime and methanol vapours may be emitted.

11- TOXICOLOGICAL INFORMATION

Acute toxicity : 2-Butanone oxime: LC 50 inhalation (rat)/4 h: > 4.83 mg/l.
Human effects : Repeated or prolonged contact may cause slight irritation to the skin.
Sensitisation : Not a cutaneous skins sensitizer for guinea pigs, when tested in accordance with the Buehler method.
Carcinogenicity : As far as we know, under normal conditions of use, this product will not present an exposure hazard to man.
Long term exposure : No information available. Studies are carried out.

12- ECOLOGICAL INFORMATION

Ecotoxicity : Effects on the aquatic environment: LC 50 (fish: pimephales promelas) 96 h: 844 mg/l for 2-Butanone oxime
Degradability : Not biodegradable
Bioaccumulation : Not bioaccumable
Solubility : Insoluble

MATERIAL SAFETY DATA SHEET

Edition January 2010

Product name : *FIWA fire safe, water repellent sealant*

13- DISPOSAL CONSIDERATIONS

: Dispose in accordance with local and national regulations

14- TRANSPORT INFORMATION

General : Not Classified as Hazardous for Transport
Land : Rail/road (RID/ADR): not restricted
Sea : (IMO/IMDG): not restricted
Air : (ICAO-IATA): not restricted
Note : It is advisable to check the validity of the above due to possible evolution of transport regulations

15- REGULATORY INFORMATION

Classification : Not irritant
Risk Phrases : Not applicable
Safety Phrases : Not applicable

16- OTHER INFORMATION

Other information : This data sheet was prepared in accordance with Directive 91/155/EEG. The information given is based on our knowledge of the product at the time of publication. It is given in good faith.