

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 13.11.2015

Revision: 13.11.2015

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

- **1.1 Product identifier**
- **Trade name:** BOARD-FIX
- **Article number:** 4506342 / 4511743
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**  
 SU3 Industrial uses: uses of substances as such or in preparations at industrial sites  
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **1.2 Product category** PC1 Adhesives, sealants
- **Process category**  
 PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises
- **Environmental release category** ERC5 Industrial use resulting in inclusion into or onto a matrix
- **Application of the substance / the preparation :** sealant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 EMFI S.A.S.  
 3 RUE ETTORE BUGATTI  
 BP 40030  
 67501 HAGUENAU CEDEX  
 FRANCE  
 Phone: 33 3 88 90 60 00  
 Fax : 33 3 88 73 48 38  
 E-mail : emfi.sdsquestions@mmm.com  
 Internet : <http://www.emfi.com>
- **Information department:** Laboratory
- **1.4 Emergency telephone number:** ORFILA: +33 (0)1 45 42 59 59 (in France)

### 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.
- **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**  
 P501 Dispose of contents and container in accordance with local regulations.
- **Advised precautionary statements** P280 Wear protective gloves.
- **Additional information :**  
 Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine, dioctyltinbis(acetylacetonate). May produce an allergic reaction.
- **Classification system** Chicken eye : not irritating (in vitro test method OCDE 438)
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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· **vPvB**: Not applicable.

## SECTION 3: Composition/information on ingredients

### · 3.2 Chemical characterisation: Mixtures

· **Description**: Sealant

#### · **Dangerous components**:

CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17	titanium dioxide substance with a Community workplace exposure limit	< 15%
CAS: 26761-40-0 EINECS: 247-977-1 Reg.nr.: 01-2119422347-43	diisodecyl phthalate substance with a Community workplace exposure limit	5-15%
CAS: 1309-37-1 EINECS: 215-168-2 Reg.nr.: 01-2119457614-35	diiron trioxide substance with a Community workplace exposure limit	< 6%
CAS: 1305-78-8 EINECS: 215-138-9 Reg.nr.: 01-2119475325-36	calcium oxide ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	< 2.5%
CAS: 1760-24-3 EINECS: 217-164-6 Reg.nr.: 01-2119970215-39	N-(3-(trimethoxysilyl)propyl)ethylenediamine ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317	< 1%
CAS: 1333-86-4 EINECS: 215-609-9 Reg.nr.: 01-2119384822-32	carbon black substance with a Community workplace exposure limit	< 1%
CAS: 2768-02-7 EINECS: 220-449-8 Reg.nr.: 01-2119513215-52	trimethoxyvinylsilane ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H332	< 1%
CAS: 54068-28-9 Reg.nr.: 01-0000020199-67	dioctyltinbis(acetylacetonate) ⚠ STOT SE 2, H371; ⚠ Skin Sens. 1, H317	< 1%
CAS: 28553-12-0 EINECS: 249-079-5	diisononyl phthalate substance with a Community workplace exposure limit	< 1%
CAS: 1305-62-0 EINECS: 215-137-3 Reg.nr.: 01-2119475151-45	calcium dihydroxide ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	< 0.5%
CAS: 63843-89-0 EINECS: 264-513-3 Reg.nr.: 01-2119978231-37	bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate ⚠ STOT RE 1, H372; ⚠ Aquatic Chronic 1, H410	< 0.1%

· **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

· **General information** No special measures required.

#### · **After inhalation**

Supply fresh air.

Seek medical treatment in case of complaints.

#### · **After skin contact**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** CO<sub>2</sub>, extinguishing powder or water spray.
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon monoxide (CO)  
In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:  
Nitrogen oxides (NO<sub>x</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **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** Avoid contact with skin and eyes.
- **Information about protection against explosions and fires:**  
Traces of flammable substances may collect in the steam chamber of enclosed systems. Keep ignition sources clear.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store in dry conditions.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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## · 8.1 Control parameters

### · Components with limit values that require monitoring at the workplace:

<b>13463-67-7 titanium dioxide</b>	
WEL	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
<b>26761-40-0 diisodecyl phthalate</b>	
WEL	Long-term value: 5 mg/m <sup>3</sup>
<b>1309-37-1 diiron trioxide</b>	
WEL	Short-term value: 10* mg/m <sup>3</sup> Long-term value: 5* 10** 4*** mg/m <sup>3</sup> *fume (as Fe), **total respirable, ***respirable
<b>1305-78-8 calcium oxide</b>	
WEL	Long-term value: 2 mg/m <sup>3</sup>
<b>1333-86-4 carbon black</b>	
WEL	Short-term value: 7 mg/m <sup>3</sup> Long-term value: 3.5 mg/m <sup>3</sup>
<b>2768-02-7 trimethoxyvinylsilane</b>	
DNEL	Short-term value: 59 mg/m <sup>3</sup> Long-term value: 59 mg/m <sup>3</sup>
<b>28553-12-0 diisononyl phthalate</b>	
WEL	Long-term value: 5 mg/m <sup>3</sup>
<b>1305-62-0 calcium dihydroxide</b>	
WEL	Long-term value: 5 mg/m <sup>3</sup>
<b>67-56-1 methanol</b>	
WEL	Short-term value: 333 mg/m <sup>3</sup> , 250 ppm Long-term value: 266 mg/m <sup>3</sup> , 200 ppm Sk

· **Additional information:** The lists that were valid during the creation 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 while working.

· **Breathing equipment:** Not necessary if room is well-ventilated.

#### · Protection of hands:

PVA or nitrile rubber gloves of superior quality.

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.

· **Eye protection:** Tightly sealed goggles.

· **Body protection:** Protective work clothing.

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## SECTION 9: Physical and chemical properties

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

#### · General Information

#### · Appearance:

Form:	Pasty
Colour:	Various colours
Odour:	Light

#### · Change in condition

Melting point/Melting range:	undetermined
Boiling point/Boiling range:	> 120 °C

· Flash point: > 90 °C  
(in closed cup)

· Self-ignition temperature: > 200 °C

· Self igniting: Product is not selfigniting at room temperature.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible

#### · Explosion limits:

Lower:	1 Vol %
Upper:	20 Vol %

· Density at 20 °C: 1,57

#### · Solubility in / Miscibility with

Water: Not miscible or difficult to mix.  
No further relevant information available.

#### · 9.2 Other information

· Volatile organic compounds (VOC) having at 293,15 K a vapour pressure of 0,01 kPa or more (directive 1999/13/EC) :

< 1 %

## SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: Reacts with water forming traces of methanol.

## SECTION 11: Toxicological information

### · 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

· Primary irritant effect:

· Skin corrosion/irritation May be slightly irritant.

· Serious eye damage/irritation May be slightly irritant.

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

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- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### 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:**
- **Other information:** -
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
The product may not be released into the environment without control.  
Do not allow product to reach ground water, water course or sewage system.
- **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 be disposed of in an incinerator for hazardous waste according to official regulations.
- **Waste disposal key:** 08 04 09\*
- **Uncleaned packaging :**
- **Recommendation:**  
Packaging that cannot be cleansed are to be disposed of in the same manner as the product.

### SECTION 14: Transport information

- |   |      |
|---|------|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>  | Void |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>                            | Void |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul> | Void |
| <ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | Void |

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|--|-----------------|
| · <b>14.5 Environmental hazards:</b>   |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | Void            |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations**
- **French VOC regulation (decree n° 2011-321)** : Class A+
- **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.

This data sheet is particularly in accordance with the european regulations 1907/2006/EC, 1272/2008/EC and their amendments ; it is written according to annex II of the european regulation 453/2010/EC.

- **Relevant phrases**  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H371 May cause damage to organs.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.
- **Department issuing MSDS:** Laboratory
- **Contact:** cf. § 1
- **Review :**  
An asterisk in the margin of a paragraph means amendments in comparison to the former version.
- **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 Harmonised 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)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

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*Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1**Skin Sens. 1: Sensitisation - Skin, Hazard Category 1**STOT SE 2: Specific target organ toxicity - Single exposure, Hazard Category 2**STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1**Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3*

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