

According to REACH registration (EF) no. 1907/2006 and no. 453/2010  
 Classification and labeling according to Directive (EF) no. 1272/2008 (CLP)

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

**1.1. Product identifier**  
 Product name: mira 3100 unifix  
 mira 3110 unifix  
 mira 3130 superfix  
 mira 3230 superrapidfix  
 mira 3250 superplanfix  
 mira 4650 aqua stop flexible  
 mira 4670 corrosion stop  
 mira z-fix  
 mira z-fix excellent  
 mira colourplan

**1.2. Relevant identified uses of the substance or mixture and uses advised against recommended use**  
 Application: Cement based building products.

**1.3. Details of the supplier of the safety data sheet**  
 Supplier: mira byggeprodukter a/s  
 Egegårdsvej 2  
 DK- 4621 Gadstrup  
 Telephone. + 45 46 19 19 46  
 Fax: + 45 46 19 20 21

E-mail: info@mira.eu.com

Date: 11.12.2015 Version: 1.0

**1.4. Emergency**  
 Telephone number: Denmark  
 Bispebjerg hospital, Giftlinie 82 12 12 12  
 (opened 24 Hours)

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**  
 Product is classified:  
 DPD: Xi; R37/38-41  
 GHS/CLP: Skin Irrit. 2; H315 – Eye dam. 1; H318 – STOT SE 3; H335

Human health hazards: Dust can irritate throat and respiratory system and cause coughing. Dust or splashes from mixture may cause permanent eye damage. Dust irritating effect on moist skin. Prolonged contact with wet cement mixture may cause burns. Frequent inhalation of dust over a long period increases risk of developing lung diseases.

Environment: Near water, the product hardens to a solid mass, which is not biologically degradable.

**2.2. Label elements**  
 Hazard pictogram



Signal word: Danger

Hazard statements  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H335 May cause respiratory irritation.

Precautionary statements  
 P102 Keep out of reach of children.  
 P261 Avoid breathing dust.  
 P280 Wear protective gloves/eye protection/face protection.  
 P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**2.3. Other hazards**  
 PBT/vPvB Not relevant

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**  
 Contains cement and quartz sand (<0,1% respirable quartz). Naturally low chromium (VI) content, max.2 mg/kg limiting value is kept.

%	CAS-no.	EF-no.	REACH Reg. No.	Chemical name	Classification
30-60	65997-15-1	266-043-4	-	Portlandcement	Xi; R37/38-41
10-60	14808-60-7	238-878-4	-	Quartz	

%	CAS-no.	EF-no.	REACH Reg. No.	Chemical name	Classification
30-60	65997-15-1	266-043-4	-	Portlandcement	STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318
10-60	1408-60-7	238-878-4	-	Quartz	-

Full text of R-phrases and H-statements mentioned in this section, see section 16.

**SECTION 4: First aid measures**

Inhalation: Move to fresh air. Keep at rest. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

Eye contact: Do NOT rub eyes. Rinse immediately with plenty of water. Continue rinsing eyes during transport to hospital. Show this safety data sheet to the doctor in attendance.

Ingestion: Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Risk of product entering the lungs on vomiting after ingestion. If accidentally swallowed obtain immediate medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**  
 Strong irritation in contact with eyes, skin and respiratory system. Cement mixed with water: when mixing with water calcium hydroxide is formed, which is highly irritating and corrosive to skin and eyes. Risk of serious eye damage.

**4.3. Indication of immediate medical attention and special treatment needed**  
 If unconscious, place in recovery position and seek medical advice. Treat symptomatically. Show this safety data sheet to the doctor in attendance.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**  
 The product itself does not burn.

**5.2. Special hazards arising from the substance or mixture**  
 Dangerous when wet: causes burns. Burning produces noxious and toxic fumes.

**5.3. Advice for firefighters**  
 Wear self-contained breathing apparatus and protective suit.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**  
 Avoid breathing dust. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Use working methods to prevent dust formation.

**6.2. Environmental precautions**  
 Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3. Methods and materials for containment and cleaning up**  
 Sweep up and shovel into suitable containers for disposal. Use a suitable vacuum cleaner. Dispose of in accordance with local regulations.

**6.4. Reference to other sections**  
 See above

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**  
 Avoid dust formation. Do not get in eyes or on skin. In case of contact, immediately flush skin with plenty of water.

Technical measures: Handle in accordance with good industrial hygiene and safety practice to minimize dust and follow safety precautions as mentioned as code numbers.

Use only in area provided with appropriate exhaust ventilation with access to eyewash facilities.

**7.2. Conditions for safe storage, including any incompatibilities**  
 Keep tightly closed in a dry, cool and well-ventilated place. Containers, which are opened, must be carefully resealed and kept upright to prevent leakage.

**7.3. Specific end use(s)**  
 Not relevant

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SECTION 8: Exposure controls/personal protection				
<b>8.1. Control parameters</b>				
The following notifiable ingredients have a threshold according to limit values for substances no.1134/2011				
CAS-no.	Chemical name	Limit values	Anm	Ref
-	Mineral dust respirable	5 mg/m <sup>3</sup>	-	AT
-	Mineral dust inert	10 mg/m <sup>3</sup>	-	AT
Compliance with limit may be checked by occupational hygiene measurements.				
<b>8.2. Exposure controls</b>				
Technical precautions	Provide adequate ventilation. Avoid exceeding of the given occupational exposure limits to minimize risk of dust exposure.			
Personal precautions:	Use personal protective equipment in accordance with current standards.			
Respiratory protection:	Respirator must be worn if exposed to dust. Respirator with a particle filter P2.			
Skin:	Protective gloves Neoprene, vinyl.			
Eye:	Use tight fitting goggles.			
Skin protection:	Hygiene measures: Remove contaminated clothing and wash skin thoroughly with soap and water after work.			
Environmental exposure controls:	No information available.			

SECTION 9: Physical and chemical properties	
<b>9.1. Important Health Safety and Environmental Information</b>	
Appearance:	Powder, cream white
pH:	11-13 in water (20°C)
Relative density:	1450 kg/m <sup>3</sup>
Water solubility:	Miscible with water
<b>9.2. Other information</b>	
Not relevant	

SECTION 10: Stability and reactivity	
<b>10.1. Reactivity</b>	
Stable under normal conditions.	
<b>10.2. Chemical stability</b>	
Stable under recommended storage conditions.	
<b>10.3. Possibility of hazardous reactions</b>	
None known.	
<b>10.4. Conditions to avoid</b>	
None known	
<b>10.5. Incompatible materials</b>	
Aluminum powder, alkali and alkaline earth metals react with water mortar of concrete and form hydrogen. Product reacts violently with evolution of heat when mixed with acids.	
<b>10.6. Hazardous decomposition products</b>	
No information available.	

SECTION 11: Toxicological information	
<b>11.1. Information on toxicological effects</b>	
Aspiration hazard:	Dust can irritate the respiratory system and cause throat irritation and coughing.
Skin contact:	Dust irritating effect on moist skin. Prolonged contact with mixture may cause corrosion.
Eye contact:	Dust or splashes from mixture may cause permanent eye damage.
Ingestion:	Ingestion may cause severe irritation of the mouth, esophagus and intestinal canal.
Long term effects:	Frequent inhalation of dust over a long period increases risk of developing lung diseases.

SECTION 12: Ecological information	
<b>12.1. Toxicity</b>	
Environmental hazard is considered limited.	
<b>12.2. Persists and degradability</b>	
This product consists predominantly of organic compounds, which are not biologically degradable. No information available regarding degradability of its other components.	
<b>12.3. Bioaccumulative potential</b>	
No information available.	
<b>12.4. Mobility in soil</b>	
No information available.	
<b>12.5. Result of PBT- and vPvB-assessment</b>	
Not relevant	
<b>12.6. Other adverse effects</b>	
None known.	

SECTION 13: Disposal considerations	
<b>13.1. Waste treatment methods</b>	
Waste must be disposed in accordance with local authority requirements. Waste is classified as hazardous waste. Note that fully cured material is not considered hazardous waste.	
Waste Code	EAK: 17 09 03 EAK: 17 09 04 (for cured material)

SECTION 14: Transport information	
Not classified as dangerous in the meaning of transport regulations.	
<b>14.1. UN-no.</b>	
Not relevant.	
<b>14.2. UN- proper shipping name)</b>	
Not relevant.	
<b>14.3. Transport hazard class (es)</b>	
Not relevant.	
<b>14.4. Packing group</b>	
Not relevant.	
<b>14.5. Environmental hazards</b>	
Not relevant.	
<b>14.6. Special precautions for users</b>	
Not relevant.	
<b>14.7. Transport in bulk according to Annex II in MARPOL 73/78 and IBC-code</b>	
Not relevant.	

SECTION 15: Regulatory information	
<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
Regulation (EC) no. 1907/2006(REACH)	
Regulation (EC) no. 1272/2008(CLP)	
Regulation (EC) no. 453/2010	
EMICODE® EC 1 <sup>plus</sup> very low emission	
<b>15.2. Chemical safety assessment</b>	
None CSA.	

SECTION 16: Other information	
Provide adequate information, instruction and training for operators. Refer to attached safety data sheets and /or instruction for use.	
Description of H-phrases confer SECTION 2 and 3:	
R37/38	Irritating to respiratory system and skin
R41	Risk of serious eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May irritate respiratory system.
Information in this safety data sheet is based on information in our possession at the date of preparation and is reliable provided that the product is used under the prescribed conditions and in accordance with application specified on the packaging or in technical literature. Any other use of the product in combination with any other product or process is the user's responsibility.	