

Trade name E.Mix Tile Fix 303

## 1 IDENTIFICATION OF HAZARDOUS CHEMICAL AND OF THE SUPPLIER

### Product identifier

Trade name E.Mix Tile Fix 303

Safety data sheet no.: XXP014798

### Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture Tile adhesive

### Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

Saint-Gobain (Singapore) Pte Ltd

2 Venture Drive, #13-18 Vision Exchange, Singapore 608526

Phone: +65 6330 8288

Fax: +65 6330 8288

## 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Results of in vitro- tests have shown that cement based mixtures with more than 1% of cement cause serious skin irritation and serious eye damage, therefore the classification of these mixtures regarding H315 and H318 is not based on the calculation of the ingredients or the pH in this case.



GHS05 corrosion

Eye Dam. 1

H318 Causes serious eye damage.



GHS07

Skin Irrit. 2

H315 Causes skin irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

STOT SE 3

H335 May cause respiratory irritation.

### Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

### Hazard pictograms



GHS05



GHS07

<b>Trade name E.Mix Tile Fix 303</b>
--------------------------------------

**Signal word** Danger

**Hazard-determining components of labelling:**

cement portland, grey milled fly ash

**Hazard statements**

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of 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.  
P310 Immediately call a POISON CENTER/doctor.  
P362 Take off contaminated clothing.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards**

When the dry powder product comes in contact with water or becomes wet, a strong alkaline solution is formed. Due to the high alkalinity, moist/wet mortar can cause skin and eye irritation. There is a risk of serious damage to health particularly from prolonged contact.

The product contains silica sand with less than 1% of fine fraction and therefore is not classified as hazardous; however, pay attention when handling and follow the indications relating to personal protective equipment.

**Results of PBT and vPvB assessment**

**PBT:** Does not contain PBT substances.

**vPvB:** Does not contain vPvB substances.

**3 COMPOSITION AND INFORMATION OF THE INGREDIENTS OF THE HAZARDOUS CHEMICAL**

**Chemical characterisation: Mixtures**

**Description:** Mixture of substances listed below with non hazardous additions .

<b>Dangerous components:</b>		
CAS: 14808-60-7 EINECS: 238-878-4 Index number: 002-315-45-4	Silicium dioxide (Quartzsand) substance with a Community workplace exposure limit	25 – 50%
CAS: 65997-15-1 EINECS: 266-043-4	cement portland, grey ☠ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	25 – 50%
CAS: 65996-69-2	milled fly ash	5 – 10%

**Trade name E.Mix Tile Fix 303**

EINECS: 266-002-0 Reg.nr.: 2119487456-25-0005	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 471-34-1 EINECS: 207-439-9 Reg.nr.: 01-2119486795-18-xxxx	calcium carbonate substance with a Community workplace exposure limit	2 – 5%

**SVHC** Void

**Additional information**

The product contains silica sand composed of quartz (crystalline silica) with a fine fraction below 1%. The respirable fraction has an occupational exposure limit value (cf. section 8). For the wording of the listed haz ard phrases refer to section 16.

**4 FIRST AID MEASURES**

**Description of first aid measures**

**General information**

Immediately remove any clothing soiled by the product.  
Remove the victim immediately from the danger area. If the patient is unwell consult a doctor and present this data sheet.

**After inhalation**

Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.

**After skin contact**

Remove contaminated gloves, clothing, footwear or other items and wash thoroughly before re-use.  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

**After eye contact**

Rinse opened eye for several minutes under running water. Then consult doctor. Rinse liquid should be tempered (20-30°C).

**After swallowing**

Rinse out mouth with water. Do not induce vomiting. Seek medical attention and present this data sheet.

**Most important symptoms and effects, both acute and delayed**

This powder (wet or dry) may cause irritation or potentially irreversible serious injury on contact with the eyes. Prolonged contact with moist skin (due to e.g. sweat or humidity) can cause skin irritation

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5 FIRE-FIGHTING MEASURES**

**Extinguishing media**

**Suitable extinguishing agents**

Use fire extinguishing methods suitable to surrounding conditions.

**Special hazards arising from the substance or mixture**

No further relevant information available.

**Advice for firefighters**

**Protective equipment:** Use methods suitable to surrounding conditions.

Trade name E.Mix Tile Fix 303

## 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear protective clothing.  
Avoid formation of dust.  
Ensure adequate ventilation.

**Environmental precautions:** Do not allow product to reach sewage system or any water course

### Methods and material for containment and cleaning up:

Use neutralising agent.  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.

### 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.

## 7 HANDLING AND STORAGE

### Precautions for safe handling

Thorough dedusting.  
Keep receptacles tightly sealed.  
Provide suction extractors if dust is formed.

**Information about fire and explosion protection:** No special measures required.

### Conditions for safe storage, including any incompatibilities

#### Storage

**Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.

**Information about storage in one common storage facility:** Store away from foodstuffs.

**Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

Protect from humidity and water.

**Specific end use(s)** No further relevant information available.

## 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

### Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

DNELs		
<b>CAS: 471-34-1 calcium carbonate</b>		
Inhalative	Derived No Effect Level	6.36 mg/m <sup>3</sup> (worker local long term value) 1.06 mg/m <sup>3</sup> (consumer local long term value)
CAS No. Designation of material % Type Value Unit		
<b>CAS: 14808-60-7 Silicium dioxide (Quartzsand)</b>		
TWA (Italy)	Long-term value: 0.025 mg/m <sup>3</sup> A2 (r)	

<b>Trade name E.Mix Tile Fix 303</b>
--------------------------------------

HTP (Finland)	Long-term value: 0.05 mg/m <sup>3</sup> alveolijae
<b>CAS: 65997-15-1 cement portland, grey</b>	
AGW (Germany)	Long-term value: 5 E mg/m <sup>3</sup> DFG
LEP (Spain)	Long-term value: 4 mg/m <sup>3</sup> fracción respirable: e, d
TWA (Italy)	Long-term value: 1 mg/m <sup>3</sup> (e, j), A4
VLE (Portugal)	Long-term value: 1 mg/m <sup>3</sup> Fração resp.;A4,função pulm.,sintomas resp.,asma
HTP (Finland)	Long-term value: 5* 1** mg/m <sup>3</sup> *hengittyvä/inhalerbar, **alveolijae/respirabel
<b>CAS: 471-34-1 calcium carbonate</b>	
LEP (Spain)	Long-term value: 10 mg/m <sup>3</sup>
TWA (Italy)	Long-term value: (10) mg/m <sup>3</sup> (e)
VLE (Portugal)	Long-term value: (10) mg/m <sup>3</sup> (Irritação)

**Additional Occupational Exposure**

**Limit Values for possible hazards during processing:**

Total inhalable dust: 10 mg/m<sup>3</sup> Respirable dust (< 5 µm): 4 mg/m<sup>3</sup>

Quartz respirable dust (< 5 µm) : 0,15 mg/m<sup>3</sup>

**Additional information:**

The applicable TRGS 900 (MAK list) was used as the basis for the preparation and/or revision of this safety data sheet.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Use a moisturising skin cream after processing the product.

**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device.

In case of intensive or longer exposure use self-contained respiratory protective device.

**Protection of hands:** Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Protective gloves.

**Material of gloves** Nitrile impregnated cotton gloves complying with the standard EN 374-1.

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 cannot be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Trade name E.Mix Tile Fix 303

**Eye protection:** Tightly sealed goggles

**Body protection:** Protective work clothing.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### General Information

#### Appearance:

<b>Form:</b>	Powder
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Alkaline
<b>Change in condition</b>	
<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	Undetermined.
<b>Flash point:</b>	Not applicable
<b>Flammability (solid, gas):</b>	Product is not flammable.
<b>Ignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Product is not self-igniting.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Oxidising properties</b>	Not determined.
<b>Vapour pressure</b>	Not applicable.
<b>Density at 20 °C:</b>	1.4 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Hardens when in contact with water.
<b>Segregation coefficient (n-octanol/water) log</b>	
<b>Pow:</b>	Not determined.
<b>Viscosity:</b>	
<b>dynamic:</b>	Not applicable.
<b>kinematic:</b>	Not applicable.
<b>Solvent content:</b>	
<b>EU-VOC (%)</b>	0.00 %
<b>EU-VOC (g/L)</b>	0.0 g/l
<b>Solids content:</b>	100.0 %
<b>Other information</b>	None.

Trade name E.Mix Tile Fix 303

## 10 STABILITY AND REACTIVITY

**Reactivity** Not reactive under normal conditions of use

**Chemical stability** Stable at recommended storage conditions

**Thermal decomposition / Conditions to be avoided:**

No decomposition if used according to specifications.

**Possibility of hazardous reactions** Reacts with acids

**Conditions to avoid**

Avoid water ingress/moisture during storage (the product will react with moisture and harden).

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

## 11 TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

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

**LD/LC50 values relevant for classification:**

Components	Type	Value	Species
<b>CAS: 65997-15-1 cement portland, grey</b>			
Dermal	LD50	>2,000 mg/kg	(Rabbit)
<b>CAS: 471-34-1 calcium carbonate</b>			
Oral	LD50	6,450 mg/kg	(Rat)
Dermal	LD50	6,450 mg/kg	(Rat)
<b>Copolymer of vinyl acetate and ethylene with mineral additives and protective colloides</b>			
Oral	LD50	>2,000 mg/kg	(Rat)

**Primary irritant effect:**

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation** Causes serious eye damage.

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

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

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

**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** May cause respiratory irritation.

**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.

Trade name E.Mix Tile Fix 303

## 12 ECOLOGICAL INFORMATION

### Toxicity

**Aquatic toxicity:** Not classified as harmful to aquatic life

Type of test	Effective concentration	Method	Assessment
<b>CAS: 65996-69-2 milled fly ash</b>			
LC50/96h	>100 mg/l	(Leuciscus idus (Orfe))	
EC 0/48h	>100 mg /l	(Daphnia magna)	
<b>CAS: 471-34-1 calcium carbonate</b>			
EC50/72h	14mg/l	(Algae)	
<b>Copolymer of vinyl acetate and ethylene with mineral additives and protective colloides</b>			
LC50/96h	>100 mg/l	(Cyprinus Carpio (common carp))	

**Persistence and degradability** No further relevant information available.

**Bioaccumulative potential** No further relevant information available.

**Behaviour in environmental systems:**

**Mobility in soil** No further relevant information available.

### Ecotoxicological effects:

#### Remark:

The product contains substances which causes severe clouding in water

The product contains substances which cause a local pH change and thus have a detrimental effect on fish and bacteria.

### Additional ecological information:

**General notes:** Do not allow product to reach ground water, water course or sew age system.

### Results of PBT and vPvB assessment

**PBT:** Does not contain PBT substances.

**vPvB:** Does not contain vPvB substances.

**Other adverse effects** No further relevant information available.

## 13 DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Recommendation

Dispose of the product in accordance with national and local regulations.

Product hardens after adding water after 5 to 6 hours and can then be disposed of as building rubbish.

Possible waste code 17 09 04.

### European waste catalogue

Possible waste code. The concrete waste code depends on the source of the waste.

10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 14	waste concrete and concrete sludge
HP 4	Irritant - skin irritation and eye damage

**Trade name E.Mix Tile Fix 303**

HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 13	Sensitising

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleaning agent:** Thoroughly shake out sacks.

**14 TRANSPORT INFORMATION**

<b>UN-Number</b> ADR, ADN, IMDG, IATA	Void
<b>UN proper shipping name</b> ADR, ADN, IMDG, IATA	Void
<b>Transport hazard class(es)</b> ADR, ADN, IMDG, IATA Class	Void
<b>Packing group</b> ADR, IMDG, IATA	Void
<b>Environmental hazards:</b>	Not applicable.
<b>Special precautions for user</b>	Not applicable.
<b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	Not dangerous specifications according to the above
<b>UN "Model Regulation":</b>	Void

**15 REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No 1272/2008 (CLP)

Regulation (EC) No 1907/2006 (REACH) (Candidate List, Annexes XIV and XVII)

**Labelling according to Regulation (EC) No 1272/2008** cf. section 2

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**REGULATION (EC) No 1907/2006 ANNEX XVII**

The marketing and use of cement is subject to a restriction on the content of soluble Cr (VI) (REACH Annex XVII point 47 Chromium VI compounds)

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

Trade name **E.Mix Tile Fix 303**

## 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.

### Relevant phrases

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

**Department issuing SDS:** Technical Department

**Contact:** Tan Kim Song

**Phone:** +65 6363 5340

[kimsong.tan@saint-gobain.com](mailto:kimsong.tan@saint-gobain.com)

### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

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)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern (REACH regulation)

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/ irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

### \* Data compared to the previous version altered.

According to Annex II of the REACH regulation, the modified sections in this version of the Safety Data Sheet in comparison with the previous one are marked with asterisks.