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

**1.1. Product identifier**

**Name of product** F2102 FV

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses**

**Process categories [PROC]**

PROC2 - Use in closed, continuous process with occasional controlled exposure

PROC3 - Use in closed batch process (synthesis or formulation)

PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC7 - Industrial spraying

PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC13 - Treatment of articles by dipping and pouring

PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC22 - Potentially closed processing operations with minerals/metals at elevated temperature; industrial setting

PROC26 - Handling of solid inorganic substances at ambient temperature

PROC10 - Roller application or brushing

PROC11 - Non industrial spraying

PROC19 - Hand-mixing with intimate contact and only PPE available

**1.3. Details of the supplier of the safety data sheet**

**Manufacturer/distributor**

TPH Bausysteme GmbH  
Nordportbogen 8, D-22848 Norderstedt  
Phone +49 (0)40 / 52 90 66 78-0, Fax +49 (0)40 / 52 90 66  
78-78  
E-Mail [info@tph-bausysteme.com](mailto:info@tph-bausysteme.com)  
Internet [www.tph-bausysteme.com](http://www.tph-bausysteme.com)

**Advice**

E-mail (competent person):  
[sdb-info@tph-bausysteme.com](mailto:sdb-info@tph-bausysteme.com)

**1.4. Emergency telephone number**

**Emergency advice**

GIZ-Nord  
Phone +49 (0)551 / 19240

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**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Skin Irrit. 2	H315	On basis of test data.
Eye Dam. 1	H318	On basis of test data.
STOT SE 3	H335	

**Hazard statements for health hazards**

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

**Additional hints**

Reacts with water strongly caustic - protect skin and eyes. Chromate poor (according to Regulation (EC) 1907/2006 - Annex XVII).

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

**2.2. Label elements**

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**



GHS05



GHS07

**Signal word**

Danger

**Hazard statements for health hazards**

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

**Precautionary Statements**

**General**

P102 Keep out of reach of children.

**Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P302 + P352 IF ON SKIN: Wash with plenty of water/soap.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Disposal**

P501 Dispose of contents/container to local waste disposal company.

**Hazardous ingredients for labeling**

Portland cement clinker

**2.3. Other hazards**

**Results of PBT and vPvB assessment**

not applicable

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**SECTION 3: Composition/ information on ingredients****3.1. Substances**

not applicable

**3.2. Mixtures****Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
65997-15-1	266-043-4	Portland cement clinker	>= 20 <= 100	Eye Dam. 1, H318 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / STOT SE 3, H335
1305-62-0	215-137-0	Calcium hydroxide	>= 1 < 10	Skin Irrit. 2, H315 / Eye Dam. 1, H318 / STOT SE 3, H335

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**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In the event of persistent symptoms receive medical treatment.

**In case of inhalation**

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

**In case of skin contact**

In case of contact with skin wash off with water.

Consult a doctor if skin irritation persists.

**In case of eye contact**

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

**In case of ingestion**

Call for a doctor immediately.

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

No information available.

**4.3. Indication of any immediate medical attention and special treatment needed****Treatment (Advice to doctor)**

Treat symptoms.

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**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Product does not burn, fire-extinguishing activities according to surrounding.

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

No information available.

**5.3. Advice for firefighters****Additional information**

Not combustible under normal conditions.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **For non-emergency personnel**

Avoid dust formation.

### **6.2. Environmental precautions**

Do not discharge into the drains or bodies of water..

Collect contaminated water / firefighting water separately.

### **6.3. Methods and material for containment and cleaning up**

After taking up the material dispose according to regulation.

Take up mechanically.

#### **Additional Information**

Informations for disposal see chapter 13.

### **6.4. Reference to other sections**

No information available.

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Avoid the formation of dust.

#### **General protective measures**

Avoid contact with eyes and skin

Do not inhale dust.

#### **Hygiene measures**

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Keep separated from food and feed.

Wash hands before breaks and after work.

#### **Advice on protection against fire and explosion**

No special measures necessary.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Advice on storage compatibility**

no

#### **Further information on storage conditions**

Protect from atmospheric moisture and water

Keep container dry and tightly closed.

**Storage group** 13

### **7.3. Specific end use(s)**

No information available.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
1305-62-0	Calcium hydroxide	IOELV, 8 hours	5		

### 8.2. Exposure controls

#### Respiratory protection

Particle filter P2

In case of dust formation wear micro dust mask.

#### Hand protection

Synthetic rubber gloves

PVC gloves

Neoprene gloves

#### Eye protection

tightly fitting goggles

#### Other protection measures

protective clothing

## SECTION 9: Physical and chemical properties

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

#### Appearance

powder

#### Colour

grey

#### Odour

odourless

#### Odour threshold

not determined

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value</b>	11 - 13,5	20 °C			
<b>Acid number</b>	not applicable				
<b>boiling range</b>	not applicable				
<b>melting range</b>	> 1250 °C				
<b>Flash point</b>	not applicable				
<b>Vapourisation rate</b>	not applicable				
<b>Flammable (solid)</b>	not applicable				
<b>Flammability (gas)</b>	not applicable				
<b>Ignition temperature</b>	not applicable				

	Value	Temperature	at	Method	Remark
<b>Self ignition temperature</b>	no				
<b>Lower explosion limit</b>	not applicable				
<b>Upper explosion limit</b>	not applicable				
<b>Vapour pressure</b>	not applicable				
<b>Relative density</b>	not determined				
<b>Bulk density</b>	900 - 1500 kg/m <sup>3</sup>				
<b>Vapour density</b>	not applicable				
<b>Solubility in water</b>	3 g/l	20 °C			
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not applicable				
<b>Decomposition temperature</b>	> 580 °C				
<b>Viscosity dynamic</b>	not applicable				
<b>Viscosity kinematic</b>	not applicable				
<b>Solvent separation test</b>	not applicable				
<b>Solvent content</b>	no				
<b>Water content</b>	not determined				
<b>Solids content</b>	> 98 %				
<b>Combustion value</b>	not applicable				
<b>Oxidising properties</b>	no				
<b>Explosive properties</b>	no				
<b>9.2. Other information</b>	no				

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

In case of addition of water warming up.  
Evolution of heat under influence of acids.

### 10.2. Chemical stability

Reactions with water.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

None, if handled according to order.

### 10.5. Incompatible materials

#### Substances to avoid

Reactions with acids.

### 10.6. Hazardous decomposition products

No dangerous composition products during appropriate storage and handling.

### Thermal decomposition

Remark No decomposition if used as directed.

### Additional information

Reacts with water strongly caustic.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	no			Information concerns to main component.
<b>LD50 acute dermal</b>	2000 mg/kg	rabbit	Limit test, 24 h	
<b>LC50 acute inhalation</b>	no			
<b>Skin irritation</b>	irritant			
<b>Eye irritation</b>	risk of strong eye injuries			
<b>Skin sensitization</b>	sensitizing			
<b>Sensitization respiratory system</b>	non-sensitizing			

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
<b>Subacute Toxicity</b>	not determined			
<b>Subchronic Toxicity</b>	not determined			
<b>Chronic Toxicity</b>	not determined			

**Mutagenicity**

No mutagenity, after different in-vitro studies.

**Reproduction-Toxicity**

No indications of toxic effects were observed in reproduction studies in animals.

**Carcinogenicity**

No indications of carcinogenic effects are available from long-term trials.

**Specific target organ toxicity (single exposure)**

May cause respiratory irritation.

**Specific target organ toxicity (repeated exposure)**

No data available

**Aspiration hazard**

not applicable

**Toxicity test (Additional information)**

No experimental indication of genotoxic effects.

**Experiences made from practice**

Risk of strong eye injuries.  
Irritates mucous membranes.  
Irritates eyes and skin.

**Additional information**

The declarations of toxicology refer to main component.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicological effects**

	Value	Species	Method	Validation
<b>Fish</b>	No data available			
<b>Daphnia</b>	No data available			
<b>Algae</b>	No data available			
<b>Bacteria</b>	No data available			



**12.2. Persistence and degradability**

	Elimination rate	Method of analysis	Method	Validation
<b>Physico-chemical degradability</b>	not applicable			
<b>Biological degradability</b>	not applicable			
<b>Degradability</b>	not applicable			
<b>Biological eliminability</b>	not applicable			
<b>Degradability according to WRMG</b>	not applicable			

**12.3. Bioaccumulative potential**

not applicable

**12.4. Mobility in soil**

not applicable

**12.5. Results of PBT and vPvB assessment**

not applicable

**12.6. Other adverse effects**

no

**Behaviour in sewage plant**

The product is an alkaline solution. Neutralization is normally necessary before waste water is discharged into sewage treatment plants.

**Respiration inhibition of activated sludge**

	Value	Method	Remark
<b>EC 50</b>	No data available		

**Additional ecological information**

	Value	Method	Remark
<b>OC</b>	not applicable		
<b>COD</b>	not applicable		
<b>BOD</b>	not applicable		
<b>AOX</b>	No data available		

**Contains following heavy metals and compounds of the 76/464/EWG**

No data available

**General regulation**

Ecological dates are not available.

Product is not allowed to be discharged into the ground water or aquatic environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste code No.**

17 09 04

**Name of waste**

mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

**Recommendations for the product**

Remove in accordance with local official regulations.

**Recommendations for packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-

**14.6. Special precautions for user**

No information available.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No information available.

**Land and inland navigation transport ADR/RID**

No dangerous goods as defined by these transport regulations.

**Marine transport IMDG**

No dangerous goods as defined by these transport regulations.

**Air transport ICAO/IATA-DGR**

No dangerous goods as defined by these transport regulations.

**Transport/further information**

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

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## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

#### Other regulations, restrictions and prohibition regulations

ZH 1/132 "Data Sheet: Skin protection (M 042)"

ZH 1/129 "Data Sheet: Irritating substances / corrosive substances (M 004)"

**Water hazard class** 1 Mixture-WGK

#### Technical instruction air

**Class III** Anteil < 1 %

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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## SECTION 16: Other information

### Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

### Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.4

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