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

### 1.1. Product identifier

Name of product F4100

### 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

Research & Development  
E-mail (competent person):  
[j.guenther@tph-bausysteme.com](mailto:j.guenther@tph-bausysteme.com)

### 1.4. Emergency telephone number

#### Emergency advice

Phone +49 (0)40 / 52 90 66 78-52  
This number is only available at office times.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to 67/548/EEC or 1999/45/EC**

Xi; R37/38

Xi; R41

**R-phrases**

37/38 Irritating to respiratory system and skin.

41 Risk of serious damage to eyes.

**Additional hints**

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

The preparation is classified as hazardous according Directive 1999/45/EC.

**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).

The substance is classified as hazardous according to Regulation (EC) 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.

**Response**

P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

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**

No information available.

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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 67/548/EEC
65997-15-1	266-043-4	Portland cement clinker	20 - 100	Xi R41; R37/38; R43

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

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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.

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**4.3. Indication of any immediate medical attention and special treatment needed**  
No information available.

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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.

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

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

No information available.

#### **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.

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**Advice on protection against fire and explosion**

The product is not combustible.  
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.

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

No information available.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**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**

No information available.

**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				

	Value	Temperature	at	Method	Remark
<b>Flash point</b>	not applicable				
<b>Vapourisation rate</b>	No information available.				
<b>Flammable (solid)</b>	not applicable				
<b>Flammability (gas)</b>	not applicable				
<b>Ignition temperature</b>	not applicable				
<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>	No information available.				
<b>Viscosity dynamic</b>	not applicable				
<b>Viscosity kinematic</b>	not applicable				
<b>Solvent separation test</b>	not applicable				
<b>Solvent concentration</b>	no				
<b>Water content</b>	not determined				
<b>Solids content</b>	100 %				
<b>Combustion value</b>	not applicable				
<b>Oxidising properties</b>	no				

**Explosive properties**

no

**9.2. Other information**

No information available.

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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

No information available.

**10.3. Possibility of hazardous reactions**

No information available.

**10.4. Conditions to avoid**

None, if handled according to order.

**10.5. Incompatible materials**

**Materials 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.

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**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity/Irritability/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	not determined			
<b>LD50 acute dermal</b>	2000 mg/kg	rabbit	Limit test, 24 h	
<b>LC50 acute inhalation</b>	not determined			
<b>Irritability skin</b>	irritant			
<b>Irritability eye</b>	risk of strong eye injuries			
<b>Skin sensitization</b>	sensitizing			

	Value/Validation	Species	Method	Remark
<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.

#### Experiences made from practice

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

#### Additional information

No toxicological data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological effects

	Value	Species	Method	Validation
<b>Fish</b>	not determined			
<b>Daphnia</b>	not determined			
<b>Algae</b>	not determined			
<b>Bacteria</b>	not determined			

### 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

No information available.

#### 12.4. Mobility in soil

No information available.

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

No information available.

#### 12.6. Other adverse effects

##### Behaviour in sewage plant

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

##### 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.

## SECTION 15: Regulatory information

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

#### National regulations

Water hazard class 1 self-classification

#### 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: 0.0

### Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 37/38 Irritating to respiratory system and skin.

R 41 Risk of serious damage to eyes.

R 43 May cause sensitisation by skin contact.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.