
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
Internet www.tph-bausysteme.com

Advice

Research & Development
E-mail (competent person):
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.

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
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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

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
No information available.

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

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.

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

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	Colour	Odour
powder	grey	odourless

Odour threshold

No information available.

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	11 - 13,5	20 °C			
Acid number		not applicable			
boiling range		not applicable			
melting range		> 1250 °C			

	Value	Temperature	at	Method	Remark
Flash point	not applicable				
Vapourisation rate	No information available.				
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not applicable				
Self ignition temperature	no				
Lower explosion limit	not applicable				
Upper explosion limit	not applicable				
Vapour pressure	not applicable				
Relative density	not determined				
Bulk density	900 - 1500 kg/m ³				
Vapour density	not applicable				
Solubility in water	3 g/l	20 °C			
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P_{O/W})	not applicable				
Decomposition temperature	No information available.				
Viscosity dynamic	not applicable				
Viscosity kinematic	not applicable				
Solvent separation test	not applicable				
Solvent concentration	no				
Water content	not determined				
Solids content	100 %				
Combustion value	not applicable				
Oxidising properties	no				

Explosive properties

no

9.2. Other information

No information available.

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.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity/Irritability/Sensitization**

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

	Value/Validation	Species	Method	Remark
Sensitization respiratory system	non-sensitizing			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Subacute Toxicity	not determined			
Subchronic Toxicity	not determined			
Chronic Toxicity	not determined			
Mutagenicity				No mutagenicity, 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 toxical dates available.

SECTION 12: Ecological information

12.1. Toxicity

	Value	Species	Method	Validation
Fish	not determined			
Daphnia	not determined			
Algae	not determined			
Bacteria	not determined			

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Physico-chemical degradability	not applicable			
Biological degradability	not applicable			
Degradability	not applicable			
Biological eliminability	not applicable			
Degradability according to WRMG	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.

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.