

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Item number 09300  
Trade name PT Crystalline Powder Admixture  
Version 2 (EN)  
Revision date 01.09.2020  
Print date 13.10.2020

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

#### 1.1 Product identifier

PT Crystalline Powder Admixture

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

##### Relevant identified uses

The product is intended for professional users. Building products.

##### Uses advised against

No identified use.

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

##### Supplier / Importer

proof-tec GmbH  
Wiesedermeerer Hauptstr. 24  
26446 Friedeburg  
GERMANY  
Telephone: +49-4948-3269990  
Telefax: +49-4948-3269999  
E-mail: info@proof-tec.com

#### 1.4 Emergency telephone number

+49-4948-3269990 (during business hours)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Skin corrosion/irritation

Category 2 H315

Serious eye damage/eye irritation

Category 1 H318

Specific target organ toxicity - single exposure

Category 3 H335

Full text of H- and EUH-phrases: see sec. 16.

#### 2.2 Labelling elements

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

##### Hazard components for labelling

Cement, portland, chemicals

Flue dust, portland cement

**Signal word: Danger**

##### Hazard pictograms



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### Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
Full text of H- and EUH-phrases: see sec. 16.	

### Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

### 2.3 Other hazards

Reacts strongly alkaline with water. Protect skin and eyes.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration
65997-15-1	266-043-4	Cement, portland, chemicals REACH No.: 02-2119682167-31 Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Dam. 1; H318; STOT SE 3, H335	1 - 50%
497-19-8	207-838-8	Sodium carbonate REACH No.: 01-2119488498-19 Eye Irrit. 2, H319	1 - 10%
68475-76-3	270-659-9	Flue dust, portland cement REACH No.: 01-2119486767-17 Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Dam. 1; H318; STOT SE 3, H335	< 2,5%

Full text of H- and EUH-phrases: see sec. 16.

#### Additional information

Products containing cement, low chromate according to Regulation 1907/2006/EC, Annex XVII (47). Attachment of the hazard warning H317 not necessary due to < 2 ppm chromium VI.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

If medical advice is required, have the packaging, identification label or safety data sheet ready.

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### Following inhalation

Move person to fresh air, keep warm, allow to rest. Medical attention required in case of breathing difficulties.

### Following skin contact

Wash off immediately with plenty of water and soap. Consult a doctor if symptoms persist.

### Following eye contact

Immediately rinse the eyes with running water for 10 to 15 minutes with the eyelid held wide open. Remove any contact lenses if possible. Rinse further. Consult an ophthalmologist.

### Following ingestion

Do not induce vomiting. Rinse mouth thoroughly with water. Allow plenty of water to be drunk in small sips (dilution effect). Call a doctor immediately.

### Self-protection of the first aider

Pay attention to self-protection!

## 4.2 Most important symptoms and effects, both acute and delayed

After inhalation: irritation of the respiratory tract - cough; after skin contact: prolonged or repeated contact with skin or mucous membrane leads to irritation symptoms such as redness, blistering, skin inflammation etc.; after eye contact: Risk of serious damage to the eyes.

## 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>), foam or powder extinguisher, continuous water spray.

#### Unsuitable extinguishing media

High volume water jet.

### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

In case of fire, carbon oxides, metal oxides and toxic gases can form.

### 5.3 Advice for fire-fighters

In case of fire fighting respiratory protection with independent air supply and tightly fitting chemical protection suit required.

### Additional information

Precipitate gases/vapours/mists with water spray jet. Collect contaminated extinguishing water separately. Do not discharge into drains or watercourses.

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### SECTION 6: Accidental release measures

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

##### For emergency responders

Ensure adequate ventilation. Avoid dust formation. Use personal protective equipment. Do not inhale dust. Avoid contact with skin, eyes and clothing.

#### 6.2 Environmental precautions

Avoid contact with water. Do not allow to enter water, sewage or soil.

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

Avoid dust formation. Pick up mechanically. Ensure adequate ventilation. Handle the collected material in accordance with the sec. on disposal. Thoroughly clean dirty objects and floor in accordance with environmental regulations.

#### 6.4 Reference to other sections

For advice on safe handling: see sec. 7.

For advice on protective measures: see sec. 8.

For advice on disposal: see sec. 13.

### SECTION 7: Handling and storage

#### 7.1 Protective measures for safe handling

##### Advice on safe handling

Use only in well-ventilated areas. Avoid dust formation. Do not inhale dust. Avoid contact with eyes and skin.

##### Fire preventions

No special measures required.

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

##### Requirements for storage rooms and vessels

Ensure adequate ventilation and spot extraction at critical points.

##### Hints on storage assembly

Keep away from food and feed.

##### Storage temperature for personal safety

5 - 25 °C

##### Further information on storage conditions

Protect against moisture. In case of moisture ingress or overlay, the contained chromate reducer may lose its effectiveness and a sensitization by skin contact cannot be excluded.

#### 7.3 Specific end uses

No information available.

### SECTION 8: Exposure controls/personal protection

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### 8.1 Control parameters

#### Occupational exposure limits

CAS No.	Substance	Value	Peak limit	Type
65997-15-1	Cement, portland, chemicals	10 mg/m <sup>3</sup> E 1,25 mg/m <sup>3</sup> A	2 (II)	AGW (DE)
68475-76-3	Flue dust, portland cement	10 mg/m <sup>3</sup> E 1,25 mg/m <sup>3</sup> A	2 (II)	AGW (DE)

A: alveolar fraction, E: respirable fraction

#### DNEL/DMEL-values - DNEL Worker

CAS No./DNEL type	Substance/Value
497-19-8	Sodium carbonate
Long-term – inhalation, local effects	10 mg/m <sup>3</sup>

### 8.2 Exposure controls

#### Appropriate engineering controls

In open handling, devices with local exhaust ventilation must be used. Do not inhale dust.

#### Personal protective equipment

##### General protection and hygiene measures

Immediately remove all soiled, soaked clothing. Draw up and observe skin protection plan! Wash hands and face thoroughly before breaks and at the end of work. Do not eat, drink, smoke or snort at the workplace.

##### Eye / Face protection

Basket glasses according to EN 166.

##### Skin protection

Wear suitable protective clothing during work.

##### Hand protection

Protective gloves according to EN 374, nitrile rubber (NBR). Breakthrough time (maximum wearing time): >480 min. The manufacturer's specifications for permeability and breakthrough times must be observed.

##### Respiratory protection

Respiratory protection is required in case of insufficient ventilation. Particle filter unit (DIN EN 143) with particle filter - type P2 (medium separation efficiency - identification colour: white) or particle filter - type P3 (high separation efficiency - identification colour: white). For short-term use: dust protection mask.

##### Environmental exposure controls

This substance must not be disposed of in the sewerage system, in soil or in water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	solid
Colour:	grey
Odour:	characteristic

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Relative density:	0,9 - 1,5 g/cm <sup>3</sup> at 20 °C
Solubility(ies):	reacts with water

### 9.2 Other information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Product cures with moisture.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Reacts strongly alkaline with water.

### 10.4 Conditions to avoid

Moisture, water

### 10.5 Incompatible materials

Strong acids, strong alkalis, base metals, strong oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Details on Cement, portland, chemicals

#### Acute toxicity, oral

Result: No acute oral toxicity was found in animal studies with cement kiln dusts and cement dusts.

#### Acute toxicity, dermal

Dose: LD50 2.000 mg/kg

Species: Rabbit

Duration: 24 h

Result: No lethality.

#### Acute toxicity, inhalative

Dose: LD50 5 g/m<sup>3</sup>

Species: Rat

Result: No acute toxicity.

#### Skin corrosion/irritation

Result: Has a skin and mucous membrane irritating effect.

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### Eye damage/irritation

Result: Risk of serious eye damage and blindness.

### Sensitisation to the respiratory tract/skin

#### Sensitisation to the respiratory tract

Result: Based on the available data, the classification criteria are not met.

### Skin sensitisation

Result: Irritant or allergic contact dermatitis possible.

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

#### Germ cell mutagenicity

Result: Based on the available data, the classification criteria are not met.

### Carcinogenicity

Result: Based on the available data, the classification criteria are not met.

### Reproductive toxicity

Result: Based on the available data, the classification criteria are not met.

### Specific target organ toxicity (single exposure)

Result: May cause irritation of the respiratory tract and mucous membranes.

### Specific target organ toxicity (repeated exposure)

Result: Based on the available data, the classification criteria are not met.

### Aspiration hazard

Result: Based on the available data, the classification criteria are not met.

### Symptoms related to the physical, chemical and toxicological characteristics

Following skin contact:	May cause irritation.
Following inhalation:	May cause irritation.
Following eye contact:	May cause serious eye damage.

### Details on Sodium carbonate

#### Acute toxicity, oral

Dose:	LD50 2.800 - 4.090 mg/kg
Species:	Rat

#### Acute toxicity, dermal

Dose:	LD50 > 2.000 mg/kg
Species:	Rabbit

#### Acute toxicity, inhalative

Dose:	LD50 2,3 mg/l
Species:	Rat
Duration:	2 h
Method:	OECD Test Guideline 403

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### **Skin corrosion/irritation**

Species: Rabbit  
Result: Not irritating.

### **Eye damage/irritation**

Species: Rabbit  
Result: Irritating

### **Sensitisation to the respiratory tract/skin**

#### **Sensitisation to the respiratory tract**

Result: Not sensitising.

### **Skin sensitisation**

Result: Not sensitising.

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

#### **Germ cell mutagenicity**

Result: In vitro tests showed no mutagenic effects.

### **Carcinogenicity**

Result: There is no evidence of carcinogenicity.

### **Reproductive toxicity**

Result: An impairment of the reproductive ability is not to be expected.

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

Result: Based on the available data, the classification criteria are not met.

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

Result: Based on the available data, the classification criteria are not met.

### **Aspiration hazard**

Result: Not applicable.

### **Symptoms related to the physical, chemical and toxicological characteristics**

Following ingestion: Diarrhoea, vomiting, irritation of mucous membranes, nausea, abdominal pain.

### **Details on Flue dust, portland cement**

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

Result: Irritation of the respiratory tract and mucous membranes.

### **Symptoms related to the physical, chemical and toxicological characteristics**

Following skin contact: May cause irritation.  
Following inhalation: May cause irritation.  
Following eye contact: May cause serious eye damage.

## SECTION 12: Ecological information



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### 12.1 Toxicity

#### Aquatic toxicity

##### Details on Cement, portland, chemicals

No data available.

##### Details on Sodium carbonate

##### Acute (short-term) fish toxicity

Dose: LC50 300 mg/l

Duration: 96 h

Species: Lepomis macrochirus (blue sunfish)

##### Acute (short-term) toxicity to crustacea

Dose: EC50 200 - 265 mg/l

Duration: Daphnia magna (großer Wasserfloh)

Species: Daphnia magna (big water flea)

##### Details on Flue dust, portland cement

No data available.

### 12.2 Persistence and degradability

#### Details on Cement, portland, chemicals

The product is not easily biodegradable.

#### Details on Sodium carbonate

No data available.

#### Details on Flue dust, portland cement

No data available.

### 12.3 Bioaccumulative potential

#### Details on Cement, portland, chemicals

No data available.

#### Details on Sodium carbonate

No bioaccumulation.

#### Details on Flue dust, portland cement

No data available.

### 12.4 Mobility in soil

#### Details on Cement, portland, chemicals

No data available.

#### Details on Sodium carbonate

No data available.

#### Details on Flue dust, portland cement

No data available.

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### 12.5 Results of PBT and vPvB assessment

The mixture does not meet the criteria for classification as PBT or vPvB.

### 12.6 Other adverse effects

No data available.

#### Additional ecotoxicological information

Do not allow undiluted or large quantities to enter the sewage system.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose in accordance with applicable international, national and local laws, ordinances and statutes. When mixed with Component A and fully reacted/cured can be disposed of in landfill. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Non-contaminated and completely empty packaging can be recycled. Contaminated packaging must be treated as the substance.

## SECTION 14: Transport information

### 14.1 Landtransport (ADR/RID)

No dangerous good in sense of these transport regulations.

### 14.2 Inland waterway transport (ADN)

No dangerous good in sense of these transport regulations.

### 14.3 Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

### 14.4 Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

## SECTION 15: Regulatory information

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

#### EU regulations

#### Authorisations and/or restrictions on use

This product contains one or more substances that are subject to authorisation: Port-land cement (chromium VI reduced), CAS No. 65997-15-1, Item 47

#### National regulations

#### Notes on employment restrictions

Observe employment restrictions for young people (§ 22 JArbSchG). Observe employment restrictions for expectant and nursing mothers.

### 15.2 Chemical Safety Assessment

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Chemical safety assessments have been carried out by the respective REACH registrants for substances > 10 t/a. No assessment has been carried out for the present mixture.

### SECTION 16: Other information

#### 16.5 Text of the hazard statements and/or safety instructions referred to in sec.s 2 to 15

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.

#### 16.7 Further information

To the best of our knowledge, the information in this safety data sheet is correct at the time of printing. The information is intended to provide guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. Insofar as the product is mixed, blended or processed with other materials, the information in this safety data sheet cannot be transferred to the new material manufactured in this way, unless expressly stated otherwise. The information is based on our current state of knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship. Existing laws and regulations must be observed by the recipient of our products on his own responsibility.