

**Safety data sheet**  
**complying with Regulation 1907/2006/EC (REACH Regulation),**  
**EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 15.06.2021

Version number 7 (replaces version 6)

Revision: 15.06.2021

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** PENETRON® INJECT COMPONENT A**Registration number:** No other information available.**UFI:** N250-401V-500A-V474**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No relevant identified uses-mixture of substances.

**Application of the substance / the mixture:** Crystalline water cut-off injection grout**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

PENETRON HELLAS S.A. G.E.MH. No: 07278001000

50, THRAKOMAKEDONON AV., 136 79 ACHARNES, GREECE

TEL.: +30 210 2448250 - FAX: + 30 210 2476803

Email: info@penetron.gr Site: www.penetron.gr

**1.4 Emergency telephone number:**

European Emergency Tel.: 112

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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:**

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.

**2.2 Label elements****Labelling according to Regulation EC No 1272/2008 CLP:**

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

**Hazard pictograms:**

GHS05 GHS07

**Signal word:** Danger

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**Hazard-determining components of labelling:**

Cement, portland, chemicals  
 calcium dihydroxide  
 Calcium magnesium tetrahydroxide  
 Calcium magnesium dihydroxide oxide

**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**

P102 Keep out of reach of children.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water and soap.  
 P304+P340 IF INHALED: Remove person to fresh air and keep 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.  
 P310 Immediately call a POISON CENTER/doctor.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Information concerning particular hazards for human and environment:**

Skin contact with wet cement, fresh concrete or mortar may cause irritation, dermatitis or burns  
 May cause damage to products made of aluminium or other non-noble metals.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.\* **SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Mixture: consisting of the following components.**Ingredients according Regulation (EU) 2020/878:**

CAS: 65997-15-1 EINECS: 266-043-4	Cement, portland, chemicals ☞ Eye Dam. 1, H318; ☞ Skin Irrit. 2, H315; Skin Sens. 1B, H317; STOT SE 3, H335	70-85%
CAS: 1305-62-0 EINECS: 215-137-3	calcium dihydroxide ☞ Eye Dam. 1, H318; ☞ Skin Irrit. 2, H315; STOT SE 3, H335	0.06-1%
CAS: 39445-23-3	Calcium magnesium tetrahydroxide ☞ Eye Dam. 1, H318; ☞ Skin Irrit. 2, H315; STOT SE 3, H335	0.06-1%
CAS: 58398-71-3 EINECS: 261-235-4	Calcium magnesium dihydroxide oxide ☞ Eye Dam. 1, H318; ☞ Skin Irrit. 2, H315; STOT SE 3, H335	0.06-1%

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information:

Take affected persons out into the fresh air.

Seek immediate medical advice.

#### After inhalation:

If breathing is difficult, remove to fresh air. Restore breathing. Keep warm and quiet. Notify physician.

In case of unconsciousness place patient stably in side position for transportation.

Seek medical treatment in case of complaints.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

#### After eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses.

Continue to rinse for at least 10 minutes.

Get medical attention if irritation occurs.

Avoid strong water jet-risk of cornea damage, consult a doctor.

#### After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Seek immediate medical advice.

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

No further relevant information available.

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

No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

### 5.3 Advice for firefighters

#### Protective equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Cool closed containers exposed to fire by spraying water.

#### Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

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

Avoid formation of dust.

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

Avoid contact with skin and eyes.

Avoid inhalation of dust.

Ensure adequate ventilation.

#### 6.1.1 For non-emergency personnel

Use personal protective equipment.

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Avoid contact with dripping or leaking material

**6.1.2 For emergency responders**

First-aid responders must wear protective clothing, gloves, goggles and respiratory device with filter type A.

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

**6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Pick up mechanically.

**6.4 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.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Avoid contact with skin, eyes and clothing.

Thorough dedusting.

Prevent formation of dust.

Store in cool, dry place in tightly closed receptacles.

Use in well ventilated areas.

Do not breathe dust. Do not ingest.

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

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

**Storage:** Store the product in closed original containers in a well-ventilated room.

**Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Keep only the original container or in a suitable container for this kind of product

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

**Further information about storage conditions:**

Protect from heat and direct sunlight.

Keep away from children

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

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

**8.1 Control parameters**

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

**CAS: 65997-15-1 Cement, portland, chemicals**

WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
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**CAS: 1305-62-0 calcium dihydroxide**

WEL (Great Britain)	Short-term value: 4* mg/m <sup>3</sup> Long-term value: 5 1* mg/m <sup>3</sup> *respirable fraction
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IOELV (EU)	Short-term value: 4 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup> Respirable fraction
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**Additional information:** The lists valid during the making were used as basis.

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## 8.2 Exposure controls

**8.2.1. Appropriate engineering controls** Good ventilation in working place.

### Individual protection measures, such as personal protective equipment

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not eat, drink or smoke while using the product.

Avoid contact with skin and eyes.

Take off contaminated clothing and wash before reuse.

Avoid inhalation of dust.

#### 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.

#### Hand protection



Protective gloves resistant to chemicals (standard EN 374-1)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

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 mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

#### Eye/face protection



Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### Body protection:



Protective work clothing

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

Physical state

Solid

Colour:

Grey

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<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Not determined
<b>Melting point/freezing point:</b>	>1000 °C
<b>Boiling point or initial boiling point and boiling range</b>	Not determined
<b>Flammability</b>	Not determined
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined
<b>Upper:</b>	Not determined
<b>Flash point:</b>	Not applicable
<b>Auto-ignition temperature:</b>	Product is not selfigniting.
<b>Decomposition temperature:</b>	Not determined
<b>pH at 20 °C</b>	10-13 (solution)
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not applicable
<b>Kinematic viscosity</b>	
<b>Dynamic:</b>	Not applicable
<b>Solubility</b>	
<b>water:</b>	Negligible
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined
<b>Vapour pressure:</b>	Not applicable
<b>Density and/or relative density</b>	
<b>Density:</b>	Not determined
<b>Relative density</b>	Not determined
<b>Vapour density</b>	Not applicable
<b>Particle characteristics</b>	See item 3.
<b>9.2 Other information</b>	
<b>Appearance:</b>	
<b>Form:</b>	Powder
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Auto-ignition temperature:</b>	Not determined
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Cloud point / clarification point:</b>	
<b>Oxidising properties</b>	Not considered as oxidising.
<b>Evaporation rate</b>	Not applicable

**Information with regard to physical hazard classes**

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Void
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void

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<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

## SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability**
**Thermal decomposition / conditions to be avoided** Stable at environment temperature.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

**10.4 Conditions to avoid**

Avoid excessive heat for prolonged periods of time.

Moisture

Water

**10.5 Incompatible materials** Strong Acids

**10.6 Hazardous decomposition products**

Carbon dioxide

Carbon monoxide

When mixed with water, products produce an alkaline solution which can cause skin irritation.

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## SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
**Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:**
**CAS: 1305-62-0 calcium dihydroxide**

Oral	LD50	>2,000 mg/kg (rat) (Acute Oral Toxicity: Up-and-Down Procedure)
Dermal	LD50	>2,500 mg/kg (rabbit) (Acute Dermal Toxicity)

**Skin corrosion/irritation** Causes skin irritation.

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

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

**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**

The product is classified as Specific Target Organ Toxicity after single exposure Category 3

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.

**Additional toxicological information:**
**Repeated dose toxicity** Based on available data, the classification criteria are not met.

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**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

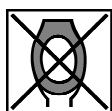
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**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****CAS: 1305-62-0 calcium dihydroxide**

EC50 (72h) (static)	184.57 mg/l (algae) (Freshwater Alga and Cyanobacteria, Grow Inhibition)
EC50 (48h) (static)	49.4 mg/l (daphnia magna) (Daphnia sp. Acute Immobilisation Test)
LC50 (96h)	158 mg/l
	50.6 mg/l (Oncorhynchus mykiss) (Fish, Acute Toxicity Test)
	457 mg/l (fis)
NOEC r (72h)	48 mg/l (algae)

**12.2 Persistence and degradability** No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.**12.7 Other adverse effects****Additional ecological information:****General notes:** Must not reach sewage water or drainage ditch undiluted or unneutralised.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation**

Dispose according to National Regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information**

<b>14.1 UN number or ID number</b>	Void
<b>14.2 UN proper shipping name</b>	Void
<b>14.3 Transport hazard class(es)</b>	Void
<b>14.4 Packing group</b>	Void

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**IATA****14.5 Environmental hazards:**

Not applicable.

**14.6 Special precautions for user**

Not applicable.

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

\*

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

The product contains less than 2 ppm ( 0,0002 w/w ) Cr (VI) according to Annex XVII of REACH Regulation. REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

CLP Regulation 1272/2008/EC

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

Council Directive 94/33/EC on the protection of young people at work, as ammended.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 47

**National regulations:****Other regulations, limitations and prohibitive regulations****Substances of very high concern (SVHC) according to REACH, Article 57**

It doesn't contain substances of very high concern (SVHC).

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

H335 May cause respiratory irritation.

**Department issuing SDS:**

SUSTCHEM S.A.

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**Version number of previous version: 6****Abbreviations and acronyms:**

IATA: International Air Transport Association

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

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

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

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

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

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

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