

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



31210 Roman Cement

Page 1

Revised edition: 01.06.2015

Version: 1

Printed: 12.01.2017

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Roman Cement

Article No.: 31210

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Natural fast-hardening cement according to the Norm NF P 15-315 and according to the European Technical Approval ETA-07/2009, which meets the Norm NF P 15-317 (cement suitable for works near the sea).

This cement is suitable for the industrial, professional and private usage.

Uses advised against:

Concrete, mortar, slurry, construction material.

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.de

E-Mail: info@kremer-pigmente.de

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Skin irritation, hazard category 2

Serious eye damage, hazard category 1

Specific Target Organ Toxicity (single exposure), hazard category 3

H315 Causes skin irritation.

Cat.: 2

H318 Causes serious eye damage.

Cat.: 1

H335 May cause respiratory irritation.

Cat.: 3

Classification according to Directive No. 67/548/EC or No. 1999/45/EC

Irritating (Xi) R36 Irritating to eyes.

Irritating (Xi) R37 Irritating to respiratory system.

Irritating (Xi) R38 Irritating to skin.

Irritating (Xi) R43 May cause sensitization by skin contact.

Safety Phrases:

next page: 2

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



31210 Roman Cement

Page 2

Revised edition: 01.06.2015

Version: 1

Printed: 12.01.2017

Possible Environmental Effects:

2.2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Hazard designation:



GHS05-2



GHS07

Signal word:

Danger

Hazard designation:

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

Safety designation:

P102	Keep out of reach of children.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P302+P352	If on skin: Wash with soap and water.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+310	If exposed: Call a poison center or physician
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical attention.
P501	Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

2.3. Other Hazards

Natural fast-hardening cement is naturally low on chromate.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization:

Natural fast-hardening cement is formed by burning of lime marl and then finely ground. It mainly consists of tricalcium silicate (3CaO.SiO₂; CAS 12168-85-3, EINECS 235-336-9), dicalcium silicate (2CaO.SiO₂; CAS 10034-77-2, EINECS 233-107-8), tricalcium aluminate (3CaO.Al₂O₃; CAS 12042-78-3, EINECS 234-932-6) and calcium ferroaluminate (4CaO.Al₂O₃.Fe₂O₃; CAS 12068-38-8, EINECS 235-094-4), calcite (CaCO₃; CAS 471-31-1, EINECS 207-439-9), spurrite (Ca₅(SiO₄)₂(CO₃)); CAS 1140-12-8) as well as small amounts of lime, magnesium, sodium sulfate,

next page: 3

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



31210 Roman Cement

Page 3

Revised edition: 01.06.2015

Version: 1

Printed: 12.01.2017

potassium and calcium and traces of other elements. Natural fast-hardening cement contains small amounts of insoluble substances which may contain silicon (CAS 14808-60-4, EINCES 238-878-4). Natural fast-hardening cement meets the requirements of EC Guideline 2003/53 and therefore does not require any additives to reduce water soluble chromium (VI).

Information on Components / Hazardous Ingredients:

Natural fast-hardening cement (Xi; R37/38-41; H315-318-335)	100 %	CAS-Nr: 65997-15-1 EINECS-Nr: 266-043-4 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Do not inhale product and avoid contact with moist mixture.

After inhalation:

Supply fresh air. Consult physician if symptoms persist.

After skin contact:

*Wash contaminated clothing and shoes before reuse.
Wash off with plenty of water and soap.*

After eye contact:

*Rinse open eyes with plenty of water for at least 15 minutes.
Seek medical attention if irritation persists.*

After ingestion:

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

*Eye contact: dust can irritate the eyes and cause redness and/or burning.
Skin contact: prolonged contact may cause irritations (due to moist skin or humidity) or dermatitis.
Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
Swallowing: may cause burns in gastro-intestinal tract.*

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

next page: 4

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



31210 Roman Cement

Page 4

Revised edition: 01.06.2015

Version: 1

Printed: 12.01.2017

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

*Product is not flammable.
No special hazards.*

5.3. Advice for Firefighters

Protective equipment:

No special measures required.

Further information:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

*Avoid contact with skin, eyes and clothing.
Wear protective clothing.*

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

*Take up mechanically and collect in suitable containers for disposal. Avoid dust formation.
Do not use compressed air.*

6.4. Reference to other Sections

*Protective clothing, see Section 8.
See Section 13 for information on disposal.*

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

*Avoid contact with eyes, skin and clothing.
Wear adequate protective clothing (see para. 8).*

Hygienic measures:

Do not inhale dust. Wash hands before breaks and at the end of work.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

*Store in tightly sealed containers in a dry room.
Protect against humidity and water.
Keep product away from children.*

Requirements for storage areas and containers:

Store product in closed containers.

Information on fire and explosion protection:

No special measures necessary.

next page: 5

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



31210 Roman Cement

Page 5

Revised edition: 01.06.2015

Version: 1

Printed: 12.01.2017

Do not use compressed air for filling, discharging or other applications.

Do not store together with: acids.

Storage class (VCI):

13; Non combustible solids

Further Information:

7.3. Specific End Use(s)

Further information:

No further information available.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

Parameters to be controlled:

ACGIH Threshold Limit Values (USA): 10 mg/m³

Derived No-Effect Level (DNEL):

1 mg/m³ (worker, inhalation)

Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Ensure adequate ventilation, especially in confined areas.

Personal Protection

General protective measures:

Wash contaminated clothes before reuse.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:

Required in case of insufficient ventilation.

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing, alkali-resistant.

Environmental precautions:

Prevent from getting into the soil, surface water and sewage system.

9. Physical and Chemical Properties

next page: 6

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



31210 Roman Cement

Page 6

Revised edition: 01.06.2015

Version: 1

Printed: 12.01.2017

9. 1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>powder</i>
<i>Color:</i>	<i>beige</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>not relevant</i>
<i>pH-Value:</i>	<i>11 – 13.5 (20°C)</i>
<i>Melting temperature:</i>	<i>> 1000°C</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not flammable</i>
<i>Evaporation rate:</i>	<i>not applicable</i>
<i>Flammability (solid, gas):</i>	<i>non-combustible</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	<i>This product is a non-volatile solid.</i>
<i>Density:</i>	<i>2.8 - 3.2 g/cm³ (20°C)</i>
<i>Solubility in water:</i>	<i>slightly soluble (0.1 - 1.5 g/l)</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>not applicable</i>
<i>Auto-ignition temperature:</i>	<i>not applicable</i>
<i>Decomposition temperature:</i>	<i>not applicable</i>
<i>Viscosity, dynamic:</i>	<i>not applicable</i>
<i>Explosive properties:</i>	<i>Product does not present an explosion hazard.</i>
<i>Oxidizing properties:</i>	<i>not oxidizing</i>

next page: 7

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



31210 Roman Cement

Page 7

Revised edition: 01.06.2015

Version: 1

Printed: 12.01.2017

Bulk density: 0.8 - 1.1 g/cm³ (20°C)

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic

Burning class:

Solvent content:

Solid content:

Particle size: < 5 µm

Other information:

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

No decomposition if used according to specifications (dry storage).

10.3. Possibility of Hazardous Reactions

None if handled and stored according to specifications.

10.4. Conditions to Avoid

Conditions to avoid:

Humidity can cause hardening of product.

Thermal decomposition:

10.5. Incompatible Materials

Wet cement is alkaline and not compatible with acids, ammonium salts, aluminium and other base metals. The contact of wet cement with aluminium powder causes the release of hydrogen.

10.6. Hazardous Decomposition Products

None

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

No information available.

LD50, dermal:

> 2000 mg/kg (rabbit)

LC50, inhalation:

No information available.

Primary effects

Irritant effect on skin:

Prolonged contact with cement paste can cauterize skin.

Irritant effect on eyes:

The dust particles can cause mechanical irritation.

next page: 8

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



31210 Roman Cement

Page 8

Revised edition: 01.06.2015

Version: 1

Printed: 12.01.2017

Direct contact with larger amounts of dry cement or splashes of wet cement can cause effects which range from moderate irritations to chemical burns and blindness.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

Repeated or prolonged contact may cause skin sensitization.

Mutagenicity:

No mutagenic effects known.

Reproductive toxicity:

No negative effects known.

Cancerogenity:

No cancerogenic effect known.

Teratogenicity:

No teratogenic effects expected.

Specific target organ toxicity (STOT):

*Single exposure: may cause respiratory irritation. This can cause coughing, sneezing and shortness of breath.
Repeated exposure: there are indications that long-term exposure can cause chronic obstructive pulmonary disease (COPD).*

Additional toxicological information:

Aspiration hazard: not applicable

12. Ecological Information

12.1. Aquatic Toxicity

No toxicity expected.

Fish toxicity:

Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12.2. Persistency and Degradability

Inorganic substance. Biological degradability is not affected.

12.3. Bioaccumulation

No bioaccumulation.

12.4. Mobility

Product is not water soluble.

12.5. Results of PBT- und vPvP Assessment

Inorganic substance: does not comply with the criteria for the classification as PBT or vPvB.

12.6. Other Adverse Effects

Water hazard class:

next page: 9

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



31210 Roman Cement

Page 9

Revised edition: 01.06.2015

Version: 1

Printed: 12.01.2017

Not hazardous.

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

*Dispose of according to official national and local regulations.
The waste is hazardous.*

European Waste Code (EWC):

101306 - Particulates and dust.

Uncleaned packaging:

Waste Code No.:

*150101 - Paper and cardboard packaging
150105 - Composite packaging*

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

14.2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

next page: 10

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



31210 Roman Cement

Page 10

Revised edition: 01.06.2015

Version: 1

Printed: 12.01.2017

IMDG:

IATA:

14. 5. Environmental Hazards

Not classified as environmentally hazardous.

14. 6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

not applicable

14. 8. Further Information

15. Regulatory Information

15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

0, not hazardous (German Regulation; Self-assessment)

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

Cement clinker is exempted from the mandatory REACH Registration (Annex V No. 10).

15. 3. Further Information

Cement does not contain more than 0.0002 % (2 ppm) water-soluble chromium (VI) of the total dry weight of cement when mixed with water.

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.