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ROMAN CONSTRUCTION PRODUCTS

SAFETY DATA SHEET

1907/2006/EC, Article 31 Version: 18-12-2014

1 Identification of the substance/preparation and of the company/undertaking

Rocem, Natural Roman Cement and NRC are used as a tradename.

Technical and Emergency help please contact the following:-

Product: *Natural Roman Cement*
Product Name: *Rocem, NRC, Natural Roman Cement*

2 Hazards Identification

- **Hazard description:** Xi Irritant



- **Information concerning particular hazards for human and environment:**
  R36/37/38 Irritating to eyes, respiratory system and skin
  R66 Repeated exposure may cause skin dryness or cracking
  R43 May cause sensitisation by skin contact
- **Classification system:**

The classification is according to the latest editions of the EU lists and extended by literature data.

3 Composition/information of ingredients

- **Chemical characterisation**
- **Description:** Natural cement.
- **Primary mineral:** C2S (Silicate Dicalcique)
- **Other:** Calcium sulfo aluminate; Calcium sulfate
- **Additional information:** For the wording of the listed risk phrases please refer to section 16.

4 First aid measures

- **General Information:** In the event of an accident seek medical advice and take this safety data sheet.
- **After inhalation:** Avoid powder inhalation. In case of inhalation, Supply fresh air and consult a Doctor if breathing is impaired.
- **After skin contact:** Wash off immediately with soap and water and rinse thoroughly. If irritation continues seek medical advice.
- **After swallowing:** Rinse throat and mouth with water. Drink water abundantly. Don't induce vomiting and seek medical advice.
- **After eye contact:** Rinse opened eye for several minutes under running water and seek medical advice.
  Call a Poison Centre in case of general feeling of sickness.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
  The product is not combustible. Use all methods appropriate to the source of the fire.
  Implement fire-fighting measures to the fire surroundings.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
  It does not emit any toxic substance in case of fire.
- **Protective equipment:** Wear self-contained respiratory protective equipment.
- **Additional information:**
  Avoid powders and dust dispersion. Avoid if possible to discharge into the environment water used for extinguishing fire. In case of fire do not breathe smoke, flumes and vapours. Fire debris and contaminated fire fighting water must be disposed of in accordance with regulations.

6 Accidental release measures

- **Personal safety precautions:**
  Adhere to the personal protection rules (Refer to sections 7 and 8).
  Avoid all contact with skin, eyes and clothing.
  Ensure adequate ventilation and avoid release of dust as much as possible.
  Do not breathe dust .
  Keep out of reach of children
  Wear protective gloves/clothing/eye and face protection
  Keep away persons not wearing appropriate protective equipment.

Ensure adequate ventilation or wear respiration masks

- **Measure for environmental protection:**
  Don't allow product to enter soil, sewage system or any ground water course.
  Adhere to local governmental rules and regulations.
  Contain spillages. Keep product dry. Use covers to avoid creation of dust.
  Avoid large, uncontrolled spillages into watercourses and drains (pH increase).
  All spillages in watercourses must be notified to the Environment Agency or other competent Authority.
  In the case of ground contamination inform the relevant authorities immediately.

- **Measures for cleaning/collecting:**
  Plug drainage courses (blocking risk).
  Impede or limit dust formation and dispersion
  Keep product dry if possible, use a vacuum suction unit or shovel into bags.
  Dispose of bags content/empty bags at a point of refuse collection. Before disposal, Cement should be made inert by wetting it to induce hardening and bags should be completely emptied.
  Flush residues with plenty of water.
  Dispose of the residue materials according to the regulations.
  Thoroughly clear contamination.

7 Handling and Storage

- **Handling:**
- **Information for safe handling:**
  Employ safe lifting.
  Keep receptacles sealed and dry.
  Ensure good ventilation/extraction in the workplace.
  Keep formation or dispersion of dust to a minimum.
  Enclose dust sources and use extraction equipment.
  See item 8 for information about suitable protective equipment and technical precautions.
  Observe the protection rules.
- **Information about fire and explosion protection:** No special measures required.
- **Storage:**
  Keep out or reach of children.
  Store in a dry place.
- **Requirements to be met by storerooms and receptacles:**
  Unsuitable material for receptacles and pipes:
  Bulk storage has to be in dedicated silos.
  Suitable material for receptacles and pipes:
  Polyethylene.
- **Information about storage in one common storage facility:**
  Do not store in the same place with acids.
  Store away from metals, strong acids and azotate composites.
  Avoid contact with air and moisture.
  Avoid contact with water
- **Further information about storage conditions:**
  Keep packaging sealed.
  Protect from frost.
  Protect from heat and direct sunlight.

Protect from water, damp and moisture
- **Storage class: 12**

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; refer to item 7.
- **Ingredients with limit values that require monitoring at the workplace:**
  The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The valid lists during the making of this product were used as the basis.
- **Personal protective equipment:**
  It is recommended to carry an eyewash.
  Local ventilation is required to manage dust levels.
  A filter mask is recommended.
- **General protective and hygienic measures:**
  Immediately remove all soiled and contaminated clothing.
  Avoid contact with the eyes and skin.
  Do not inhale dust.
  Wash hands before breaks and at the end of work.
- **Respiratory protection:**
  Use suitable respiratory protective device only when vapour or mist is formed.
  Combination filter A/P.
- **Protection of hands:** Protective gloves to be worn at all times.
- **Material of gloves:** suitable material to be used eg:
  Nitrile impregnated cotton gloves
  Chloroprene rubber, CR: Recommended thickness of the material: ≥ 0.5 mm
  Natural rubber, NR: Recommended thickness of the material: ≥ 0.6 mm
  PVC gloves: Recommended thickness of the material: ≥ 0.7 mm
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and this varies from manufacturer to manufacturer.
- **Penetration time of glove material**
  Value of the permeation: ≥ 6 (480 mins)
  The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum weaning time, which corresponds to 50% of the penetration time, is recommended.
- **Eye protection:** Tightly sealed goggles to be worn at all times. Do not wear contact lenses.
- **Body protection:** Wear protective clothes offering total protection for the skin (long trousers , long sleeves, close fitting at openings) and shoes resistant to caustic products.
- **Skin protection:** After contact with skin immediately wash thoroughly with water.

9 Physical and chemical properties

- **General information**

Form:	Powder cement
Colour:	Ochre yellow/cream
Odour:	None

- **Change in condition**

Melting point/Melting range: 450°C
Boiling point/Boiling range: Undetermined

- **Flash point:** Not applicable
- **Self-igniting:** Product is not self-igniting
- **Danger of explosion:** Product does not present an explosion hazard
- **Explosion limits:**
  Oxidizing properties Not applicable
- **Vapour pressure:** Not determined
- **Density at 20°C** Not determined
- **Vapour density** Not applicable
- **Bulk Density at 20°C:** 0.5 – 0.75 g/cm3
- **Solubility in / Miscibility with water:** 1.50 g/l
- **pH – value at 20°C:** 14.7
- **Segregation coefficient (n-octanol/water):** Not applicable
- **Viscosity:** Not applicable (solid)

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
  No decomposition if used according to specifications.
- **Materials to be avoided:**
  Acids
  Metals
- **Dangerous decomposition products:**
  Non hazardous decomposition if stored and handled as advised.
  Minimise exposure to air and humidity to avoid degradation.

11 Toxicological information

- **Acute toxicity:**
  Irritant for the skin, respiratory ways and present a risk of serious eyes damage.
  The limit of exposure to prevent sensorial local irritation and the parameters of critical effects for the lungs is OEL ou VLEP (8h) = 1 mg / m3 of breathable dust.

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4h	>2200 mg/l (rat)

- **Primary irritant effect:**
- **On the skin:** H315- Cause skin irritation / R38, irritant for the skin
- **On the eye:** H318 – Causes serious eye damage/R41 Risk of serious eye damage
- **Respiratory irritation:** H335 –can cause irritation of respiratory ways / R37 – Irritant for the respiratory system
- **During swallowing:** Irritant effect is possible.
- **Other information (about experimental toxicology):**
  Experimental analysis is not available.
- **Additional toxicological information:**
  From our observations and when used according to the guidance the product appears to have no harmful effects according to the external information provided to us.

12 Ecological information

- **Ecotoxical effects:**
- **Aquatic toxicity:**
  Harmful to aquatic organisms.
  May cause long-term adverse effects in the aquatic environment.
- **Toxicity to micro-organisms such as bacteria**
  In high concentration because of increases in temperature and pH, calcium oxide is used for the disinfection of sewage sludges.
- **Additional ecological information:**
  The product modifies the pH. Although this product is useful for the modification of the Ph of the water (acidity reduction), a dosage of over 1g/l can be harmful to aquatic life.
- **General notes:**
  The product may not be released into the environment without control.
  At present there are no ecotoxicological assessments.
  Water hazard class 2 (EU Regulation) (Self-assessment): hazardous for water.

13 Disposal considerations

- **Recommendation Disposal must be made according to official regulations.**
  Bags are exclusively for containing the product and must not be utilised for other use.
  Dispose of the contents and bags at a point of refuse collection.
  Harden the product before disposal by wetting it. Bags should be totally emptied.
- **Recommendation:** Disposal must be made according to official regulations.

14 Transportation information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** Not classified as hazardous

- **Maritime transport IMDG:**
- **IMDG Class:** Not classified as hazardous

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** Not classified as hazardous

- **Transport/Additional information:**
  No additional dangerous/hazardous goods in relation to these transport regulations other than those identified previously. Avoid spillages during transport.

15 Regulatory information

- **Labelling according to EU guidelines:**
  The product has been classified and marked in accordance with EU Directives/Ordinance on Hazardous Materials.
- **Risk phrases:**
  52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**
  S1/2 Keep out of reach of children
  S22 Do not breathe dust
  S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  S24/25 Avoid contact with skin and eyes
  S36 Wear suitable protective clothing
- **Special labelling of certain preparations:**

16 Other information

This information is given to the best of our knowledge and in good faith to assist the user to comply with the obligations related to the use of hazardous products. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This document does not dispense the user from knowing and applying all rules and practices related to his activity and must not be considered exhaustive. It does not exonerate the user from other obligations to be respected, supplementary or prescribed, outside the content of this document for which he remains solely responsible.

- **Relevant R-phrases**
  R22 Harmful if swallowed.
  R36/37/38 Irritant for the eyes, respiratory ways and the skin
  R41 Risk of severe lesion to the eyes
  R43 May cause sensitisation by skin contact.
  R50/53 Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

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