



Société Nouvelle du Littoral

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SABLE NORMALISE CEN
CERTIFIE CONFORME - EN 196.1
par l'AFNOR

Contrôlé par le Laboratoire d'Essais des
Matériaux de la Ville de Paris (L.E.M.V.P.)
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S.N.L REFERENCE CEMENTS SAFETY DATA SHEET

1 - Substance/preparation and company/company identification

- **Product name:** CEMENTS designated as Portland Cement or Composite Portland Cement, subject to EN 197-1
- **Supplier code:** Reference Cement, standard SN1, SN2, SN3, SN4, SN5, SN1c, SN2c, SN3c, SN4c, SN5c, SN200, SN201, SN202, SN203, SN 204, SN205 and SN RESI20, RESI22.
- **Use of substance/preparation:** control of laboratory equipment
- **Producer/Supplier :** *Supplier:* S.N.L.- Z.A. - 11370 LEUCATE (France) -
Tel: 33 (0) 4 68 40 14 05 - Fax: 33 (0)4 68 40 92 72 - Email: contact@s-n-l.fr

2 - Hazard Identification:

- Cement is irritating to the eyes, respiratory tract, mucous membranes, and skin due to partial hydration and the resulting high pH.
- Danger symbol: Xi
- When mixing the cement paste has a high pH: it can irritate the skin in case of prolonged contact and cause damage to the eyes in case of projection.
- Prolonged and repeated contact with the skin can lead to sensitization due to trace elements such as hexavalent chromium (Cr6⁺).
- In case of significant ingestion, cement can cause burns of the digestive tract.
- Cement does not pose a particular risk to the environment, considering that it complies with the recommendations of Section XIII, on disposal, as well as any national or local regulatory requirements that may apply.

3 – Composition/Component Information

- **Chemical characterization:** Clinker, after baking at about 1450°C, is composed mainly of silicates and calcium aluminates and very small amounts of free lime, magnesia, sodium sulfate, potassium and calcium and traces of other elements, such as hexavalent chromium. The whole thing is crushed. Cement contains very small amounts of insoluble in which free silica may be found (CAS No. 14808-60-7).
- C.A.S: 65997-15-1
- EINECS: 266-043-4
- Sentence R: 37, 38, 41, 43,

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4 – First aid measures :

Measures that can be applied depending on the exposure pathways:

- *Inhalation:* Breathe fresh air, see doctor
- *Skin contact: In case of prolonged skin contact:*
 - If the cement is dry, remove as much dust as possible from the cement, then wash thoroughly with water.
 - If cement is wasted, wash thoroughly with water.
 - Take care of the product that can remain between the skin and clothing, watch, shoes.
- *Eye contact:* Rinse immediately and thoroughly with clean water and consult an ophthalmologist.
- *Ingestion:* In case of significant ingestion immediately rinse the mouth, drink water and consult a doctor

5 – Fire-Fighting Measures

Does not burn. No hazardous emissions in case of fire.

- *Extinguishing means: Non-combustible* - all
- *Fire extinguishers not recommended for safety reasons: none*
- *Special safety equipment: none*

6 – Accidental Release Action

- *Individual precautions:*
 - Avoid contact with the eyes
 - Avoid contact with the skin
 - Avoid breathing in the dust
 - In case of dust, wear a suitable dust mask.
 - Handle the product with appropriate clothing (gloves, coveralls, boots, etc.)
- *Measures to protect the environment:*
 - Avoid pouring large quantities of cement into sewers and surface water.
 - Collect immediately any accidental application in significant quantities on the ground.
- *Method of cleaning/recovery:*
 - Give preference to the collection of cement by an appropriate means to avoid dust explosions.
 - After the crisis the cement can be disposed of as ordinary waste from the building. The cement hardens about 60 to 90 minutes after being mixed with water.

7 – Handling and Storage

- *Manipulations :*
 - Avoid the release of cement dust during use; if it cannot be avoided, wear a dust mask.
 - Avoid direct contact of cement with skin and mucous membranes.
- *Precautions for handling:*
 - The handling of loose cement must be done by appropriate means to avoid dust buildup.
- *Fire and Explosion Prevention: N/A*
- *Storage:* Keep out of reach of children

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8 – Exposure control/personal protection

- *Components with threshold values to be monitored by workstation:*
- *Technical measures:* Install suction, ventilation and filtration at dust emission points:
- *Exposure control: There is a regulatory limit value for all dust without a specific effect:*
 - 10 mg/m³ for total dust
 - 5 mg/m³ for alveolar dust (Art. R232.5.5. of the Labour Code)
- *Personal protective equipment:*
 - *Eye protection:*
Wear protective glasses if there is a risk of dust flying or if there is a risk of powder or paste splashing into the eyes.
 - *Respiratory protection:*
Avoid the release of cement dust during use; if it cannot be avoided, wear a dust mask.
 - *Hand protection:*
Wear waterproof gloves lined with cotton.
 - *Skin protection:*
Wear clothing suitable for the type of work (suit) and that protects the forearms in continuity with the gloves. For kneeling work, waterproof knee pads are recommended. Barrier creams may be used. Wearing boots (waterproof shoes) is recommended. Wash thoroughly in case of contact.

9 – Physical and chemical properties

General Guidance:

- *Form:* Powder
- *Colour:* grey
- *pH in aqueous solution:* 11 and 13.5 (basic)
- *Odour :* Odourless
- *Change of state*
 - Melting point: 1,610°C
- *Absolute density:* 2.8 to 3.2 g/cm³ to 20°C
- *Bulk density:* 0.9 to 1.2 g/cm³ to 20°C
- *Explosion hazard:* no
- *Solubility in/miscibility with water at 20°C:* Up to 1.5 g/l at 20°
- *Average particle diameter:* 5 to 30 µm

10 – Stability and responsiveness:

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- *Thermal decomposition/conditions to avoid:* No decomposition if used properly. Avoid wet area.
- *Reactions:* with water and acid.
- *Hazardous Decomposition Products:* No known hazardous decomposition products.

Chemically stable, no particular incompatibility

11 – Toxicological information:

- *Inhalation:* Cement can cause irritation of the respiratory tract. Cement can cause inflammation of the nasal mucosa. In extreme cases, erosion of the mucosa has been observed.
- *Ingestion:* In case of significant ingestion, cement is caustic for the digestive tract, it can cause burns of the mouth, esophagus and stomach.
- *Skin contact:* *Cement can irritate moist skin by partial hydration resulting in high pH.* Prolonged contact with tempered cement can cause skin burn.
- *Eye contact:* Cement can cause irritation of the eyelids (blepharitis) and cornea (conjunctivitis) and damage to the eyeballs.
- *Chronic skin pathology:* *Prolonged exposure without adequate protection (gloves) can cause irritation dermatitis. In subjects predisposed to allergies, these lesions may precede an allergy to certain elements present as traces in cement (hexavalent chromium, cobalt, etc.).* Other lesions may be encountered in case of prolonged contact without protection. They usually appear in the fingers: fissure dermatitis, ulcerations, hyperkeratosis.
- *Genetic toxicity :* Not listed
- *Carcinogenicity:* Not listed

12. – Ecological Information

- *Eco-toxicological effect:* do not discharge into pipes and sewers because of its reaction with water and the high alkalinity that results. This strong alkalinity is harmful to fish and other aquatic life. Aquatic toxicity LC 50 is not yet determined.

13. – Disposal Consideration

- Evacuation in accordance with local legal requirements.
- *Waste from residues Unused products:* recycle when possible.
 - *Packaging:* application of local regulations.

14. – Transportation Information

There are no special precautions under the transport regulations. Non-hazardous product. Avoid the spread of dust.

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15. – Regulatory Information

Labelling:



Xi irritant

Risk phrases:

- R37/38 – respiratory and skin irritant
- R41 – risk of serious eye damage
- R43 – may cause sensitization through skin contact.
- R48/20 – risk of serious health effects from prolonged inhalation exposure.

Security phrase:

- S22 – do not breathe dust
- S24/25 – avoid contact with skin and eyes
- S26 – in case of eye contact, wash immediately and abundantly with water and consult a doctor
- S36/37/39 – wear appropriate protective clothing, gloves and protective equipment eyes and face
- S46 – if swallowed immediately consult with physician and show package or label.

16. – Other Information

- The information contained in this sheet is given in good faith and constitutes our best knowledge of the matter. The information has been written in such a way that the handling, use, storage, transport and disposal are carried out correctly and safely, and should not be considered as a guarantee or quality specification. The information is only valid for the product itself and may no longer be valid when the product is used in combination with other product, or in processes, unless otherwise stated in the text.

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