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SAND STANDARD CEN  
CERTIFIED COMPLIANT –  
EN 196.1 by AFNOR and ISO 679 compliant

Controlled by the Materials Testing Laboratory of the  
City of Paris (L.E.M.V.P.)  
4 Avenue du Colonel Henri Rol-Tanguy  
75014 PARIS

Revised 24/06/2022  
Cancels and replaces all previous  
versions

## SAFETY DATA SHEET

### PRODUCT: STANDARD SANDS

According to REACH EC N°1097/2006 and CLP EC  
N°1772/2008

#### 1 - Identification of the substance/preparation and the company/company

##### 1.1 Product Name: STANDARD SAND

**Supplier code:** CEN EN 196-1 & ISO 679 - CEN EN 196-9 – SAND Grading as per BS4550 & BS 1881 part 131 -:  
A (1/2.5) - B (0.7/1.3) - C (0.3/0.6) - D (0.1/0.315) - E (0.05/0.25) – GRADED & 20-30 Sand grading as per C778-3  
(2021)- NF P 98 216.1 and other sands on demand.

##### 1.2 Use of the substance/preparation and contraindications

1.2-1 Use of the product: sand is a siliceous sand used according to the code in the control of the mechanical resistances of cements, the measurement of the heat of hydration of cements and the determination of the macro-texture of pavements

1-2-2 Contraindications: None

##### 1.3 Producer/supplier: Société Nouvelle du Littoral

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##### 1.4 Emergency telephone: ORFILA (INRS) +33 (0) 1 45 42 59 59

Service available 24 hours a day, 7 days a week  
Languages: French

#### 2 - Hazard Identification:

##### 2.1 Product Classification

**2.1.1 Classification according to CLP EC No. 1772/2008:** Siliceous sand is not classified as a hazardous material according to CLP EC No. 1772/2008.

**2.1.3 Hazard Labelling:** No labelling required (see section 2.1.1)

**2.1.3 Other hazards: Alveolar dust may be generated by the implementation processes used by the customer. These can have health effects.**

- **Health:** Prolonged or massive inhalation of alveolar crystalline silica can cause pulmonary fibrosis, usually referring to silicosis.
- **Environment:** none
- **Physical and chemical hazards:** none
- **Specific risks:** silicosis
- **Main symptoms:** The main symptoms of silicosis are cough and respiratory impairment. Dust exposure must be controlled.



S.N.L. fondée en 1910 – SAS capital 250 000 € - NIF FR 93 976 750 257 – SIRET 976 750 257 00025 APE 0812Z  
Certifiée pour la PREPARATION DU SABLE NORMALISE CEN POUR LA DETERMINATION DES RESISTANCES MECANIQUES DES CIMENTS



#10-11/11EN

### 3 – Composition/Component Information

#### 3.1 Chemical Characterization: Quartz - Synonym: Silica (SiO<sub>2</sub>)

N° C.A.S.: 14808-60-7

N° EINECS: 238-878-4

**Identification codes:** crystalline silica is not yet classified by the European Community. Exempted from registration according to REACH Article 2 §7.b and Annex V.

#### 3.2 Mixed: not applicable

#### 4.1 Measures that may be applied depending on exposure pathways:

**Inhalation:** Breathe in fresh air, seek medical attention in case of discomfort

**Skin contact:** *Wash with water, consult a doctor in case of persistent irritation*

**Eye contact:** Wash with water, do not rub eyes, sand may damage the cornea.

**Ingestion:** non-toxic, seek medical attention if unwell

**Medical information:** no known allergic reaction with siliceous sand.

#### 4.2 Immediate or Subsequent Symptoms and Effects:

- Skin and eye irritation is possible if rubbed

### 7 - Handling and Storage

- **Handling precautions:** Avoid the formation of dust. Install appropriate suction at dust emission points. If there is insufficient ventilation, wear appropriate breathing equipment. Change clothes and wash his dusty clothes. Wash hands at the end of work and before eating.
- **Storage:** Store dry away from moisture
- **Specific end use:** none

## 8 – Exposure control/personal protection

### 8.1 Exposure control: There is a regulatory limit value for all dusts with no specific effect:

- 10 mg/m<sup>3</sup> for total dust
- 5 mg/m<sup>3</sup> for alveolar dust (Art. R232.5.5. Labor Code)

In France, Decree No. 97-331 of 10 April 1997 sets the following mandatory limit values for silica:

- The mean concentration of free crystalline silica in the alveolar dust of the atmosphere inhaled by a worker during an 8-hour working day shall not exceed 0.1 mg/m<sup>3</sup> for quartz.
- Where the risk assessment shows the simultaneous presence of alveolar dusts containing crystalline silica, cristobalite and/or tridymite and/or other non-silicogenic alveolar dusts, the exposure limit value corresponding to the mixture is fixed by:  $Cns + Cq/0,1 + Cc/0,05 + Ct/0,05$  with Cns, Cq, Cs and Ct respectively representing the concentrations of dust: non silicogenic, quartz, cristobalite and tridymite, expressed in mg/m<sup>3</sup>. The thresholds to be taken into account are specific to each country.

### 8.2 Personal protective equipment:

**8.2.1 Collective Control Measures:** Implement suction, ventilation, and filtration at dust emission points:

#### 8.2.2 Individual control measures:

- *Eye protection:* Wear protective eyewear according to laboratory conditions.
- *Skin and body protection:* Wear gloves adapted to laboratory conditions.
- *Inhalation protection:* in case of dust development, wear a suitable mask type FFP1 or 2
- *Hygiene measures:* Do not shake work clothes - Do not dust with compressed air. Do not drink or eat in the work area. Wash hands before eating.

**8.3 Environmental Control Measures:** Not Required

## 9 – Physical and chemical properties

### 9.1 Information on physical and chemical properties

<b>Shape:</b>	siliceous sand with rounded grain
<b>Color:</b>	ochre grey
<b>Silica content:</b>	> 98%
<b>Smell:</b>	none
<b>Status change</b>	Melting Point: 1610 °C Boiling Point: 2230 °C
<b>Point of Ignition:</b>	none
<b>Ignition temperature:</b>	none
<b>Explosion Hazard:</b>	non
<b>Explosion limits:</b>	Lower: none Top: none
<b>Vapour pressure at 20°:</b>	none
<b>Densité à 20° C :</b>	2600 kg/m <sup>3</sup> à 2650kg/m <sup>3</sup>
<b>Solubility in/miscibility with</b>	water at 20°C: insoluble
<b>Viscosité :</b>	Dynamic at 20°C solid

9.2 Other indications: not applicable, solid material

## 10 – Stability and Responsiveness:

**10.1 Reactivity: non-reactive under normal conditions**

**10.2 Chemical Stability:** Chemically Stable

**10.3 Hazardous Reaction:** None

**10.4 Conditions to be avoided:** none

**10.5 Incompatibility: No Particular Incompatibility**

**10.6 Hazardous decomposition products: No known hazardous decomposition product.**

## 11 – Toxicological information:

### 11.1 Toxicological Effects Information:

**Non-toxic**

**Primary irritation effect:**

- skin: Irritates skin and mucous membranes when rubbed - eyes: Irritates eyes when rubbed

**Awareness:** No known awareness effect

**Mutagenic:** none

**CMR effects (carcinogenic, mutagenic, and toxic to reproduction)**

*Chronic toxicity:* Silicosis (Table 25 of occupational diseases)

Prolonged and/or massive exposure to quartz-containing alveolar dust can cause silicosis, which is a pulmonary fibrosis caused by the deposition of alveolar-sized crystalline silica particles in the lungs.

**11.2 Other Hazard Information:** not applicable

## 12. – Ecological Information

12.1 *Toxicity:* No ecotoxicity identified for silica, a naturally occurring substance that is widely distributed.

12.2 Persistence and Degradability: not applicable

12.3 Bioaccumulation Potential: not applicable

12.4 Mobility in soil: not applicable

12.5 PBT and vPvB assessment results: not applicable

12.6 Endocrine disrupting property: not applicable

12.7 Other effects: not applicable

### 13. – Disposal Consideration

#### 13.1 Product and Packaging

**13.1.1 packaging:** disposal of packaging (plastics and cartons) in accordance with the regulations in force

**13.1.2 Product:** *Waste from residues Unused products* may be landfilled in accordance with local regulations. The product should be covered if necessary to avoid the emission of respirable dust. Wherever possible, recycling should be preferred to landfill without being reused in its original normative application.

**13.2 Other information:** none

### 14. – Information related to transport

**14.1. UN number or identification number:** not applicable

**14.2. UNO official transport designation :** not applicable

**14.3. Transportation Hazard Class(s):** not applicable

**14.4. Packing Group:** not applicable

**14.5. Environmental Hazards:** not applicable

**14.6. Special precautions to be taken by the user:** standardized sand must be transported and stored dry. Refrigerated trucks are prohibited so as not to wet the sand.

**14.7. Bulk shipping in accordance with IMO instruments:** not applicable

### 15. – Regulatory Information

#### 15.1 Health, Safety and Environment

##### European Regulatory Information

1-Reach CE Regulation No. 1097/2006

2-CLP CE Regulation No 1272/2008

##### Local regulation

Refer to the regulatory exposure limits in force in each country.

For France:

- Article R232.5.5. Of the Labor Code for alveolar dust
- Decree No. 97-331 of 10 April 1997 for mandatory limit values for silica
- No toxicity to aquatic environments

**15.2 Chemical Safety Assessment:** No chemical safety assessment was conducted for siliceous sands

## 16. – Other Information

**16-1 Indication of change:** not applicable

**16.2 Classification and procedure for the classification of mixtures in accordance with Regulation (EC) No 1272/2008 [CLP]:** not applicable

### 16.3 Additional Information:

These indications are based on the current state of our knowledge, but do not guarantee the properties of the product and do not give rise to a contractual legal relationship.

*Sandblasting:* according to various national regulations, sand containing more than 5% free silica cannot be used for dry sandblasting. European producers consider this as an additional recommendation (see Decree No 69558 of 6/06/69 and Decree of 14/01/87)

*Blending with third-party products:* to the extent that products not manufactured or supplied by our Company are implemented in association with/or in their place, it is the responsibility of the customer himself-even to obtain from the manufacturer or supplier all the technical data and other properties relating to these other products and to obtain all the necessary information relating thereto.

*Responsibility:* this information is the state of our knowledge, and we consider it accurate and reliable on the date of the update of this sheet. However, it is not intended here to express any point of view, guarantee or any guarantee as to their degree of updating, reliability, or completeness.

It is the responsibility of the user himself to ensure that this information is adapted and complete with regard to the particular use he makes of our products.

A good practice guide on “Health Protection for Workers Handling Crystalline Silica” is available at <http://www.nepsi.eu>.