

CEN STANDARD SAND

Prepared in accordance with Regulation (EC) No 1907/2006 (REACH), Annex II as amended by Regulation (EU) 2020/878.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Product name	CEN Standard Sand (TS EN 196-1 Reference Sand)
Chemical name	Quartz (natural crystalline silicon dioxide, SiO ₂)
CAS No	14808-60-7
EC No	238-878-4
Product codes	REF.001-P (1,350 g pouch) · REF.001-C12 (case of 12)

1.2 Relevant identified uses

Reference sand for mortar preparation in cement strength testing (TS EN 196-1 · EN 196-1 · ISO 679).
Professional/laboratory use only.

1.3 Details of the supplier

Company	Seyman Maden Sanayi ve Ticaret Ltd. Şti.
Address	Marmaracık Mh. 1984. Sk. No:28/1 Ergene / Tekirdağ, Türkiye
Telephone	+90 534 666 29 75
E-mail	info@seymanmaden.com

1.4 Emergency telephone

National Poison Centre (Türkiye): 114 · Emergency: 112 (24/7)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification

In the granular form as supplied (0.08 – 2.00 mm), the product is NOT CLASSIFIED as hazardous under Regulation (EC) No 1272/2008 (CLP). The respirable fraction is negligible due to the particle size distribution.

WARNING: Mechanical processing (crushing, grinding, dry cutting) may generate respirable crystalline silica (RCS) dust. Prolonged/repeated inhalation of RCS may cause silicosis and increases the risk of lung cancer (IARC Group 1 – occupational exposure context).

2.2 Label elements

No pictogram, signal word or hazard statement required under CLP. Recommended precautionary statement: P260 – Do not breathe dust (in dust-generating operations). EUH210: Safety data sheet available on request.

2.3 Other hazards

Not PBT/vPvB (inorganic natural mineral). Not listed as an endocrine disruptor under Regulation (EU) 2020/878 criteria. Not flammable, explosive or oxidising.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	Quartz (SiO ₂) – natural silica sand
Concentration	≥ 98%
CAS / EC	14808-60-7 / 238-878-4
Impurities	Al ₂ O ₃ , Fe ₂ O ₃ , feldspar – trace amounts (not classification-relevant)

REACH registration: Naturally occurring mineral, not chemically modified – exempt under REACH Annex V, entry 7.

SECTION 4: FIRST AID MEASURES

Inhalation	Remove to fresh air if dust is inhaled. Seek medical advice if symptoms persist.
Skin contact	Harmless. Wash with soap and water.
Eye contact	Rinse with plenty of water for at least 15 minutes, keeping eyelids open. Seek medical advice if irritation persists.
Ingestion	Small quantities are harmless. Rinse mouth; seek medical advice if discomfort occurs.

4.2 Most important symptoms: High dust concentrations may cause temporary mechanical irritation of eyes and airways. 4.3 Special treatment: None; treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Non-flammable; does not support combustion. Use any extinguishing media suitable for the surrounding fire. No special protective equipment required; the product yields no hazardous decomposition products.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Avoid dust generation. Collect spilled material by wet methods or with a HEPA-filtered industrial vacuum; do not dry-sweep or use compressed air. Uncontaminated product may be reused. No environmental precautions required (inert natural mineral).

SECTION 7: HANDLING AND STORAGE

7.1 Handling

Minimise dust generation; use local exhaust ventilation for dust-generating operations. Keep away from food and drink; wash hands after handling.

7.2 Storage

Store in the original closed packaging in a dry, protected area. Indefinite shelf life under proper conditions. No known incompatibilities.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters — Occupational exposure limits

Respirable crystalline silica (EU)	0.1 mg/m ³ TWA — Directive (EU) 2017/2398
Respirable crystalline silica (TR)	0.1 mg/m ³ TWA — Dust Control Regulation (O.G. 28812)
General respirable dust	5 mg/m ³ TWA

8.2 Exposure controls

Engineering	Local exhaust ventilation for dust-generating operations
Respiratory protection	EN 149 FFP2/FFP3 respirator if limits may be exceeded
Eye protection	EN 166 safety glasses in dusty operations
Hand/Skin protection	Not mandatory; general work gloves recommended

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light cream/beige granular solid (0.08 – 2.00 mm)
Odour	Odourless
pH	Not applicable (insoluble in water)
Melting point	≈ 1,713 °C
Boiling point	≈ 2,230 °C

Particle density	2.65 g/cm ³
Bulk density	≈ 1.5 – 1.6 g/cm ³
Water solubility	Insoluble (< 0.01 g/L)
Flammability / explosivity	Not flammable, explosive or oxidising
Moisture	≤ 0.2% (105 °C)

SECTION 10: STABILITY AND REACTIVITY

Chemically stable under normal conditions; no hazardous reactions or polymerisation expected. Materials to avoid: hydrofluoric acid (HF) – reacts to form silicon tetrafluoride. No hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 (oral, rat) > 5,000 mg/kg · LD50 (dermal, rat) > 5,000 mg/kg – not acutely harmful.
Skin/eye corrosion-irritation: Not classified (mechanical irritation possible). Sensitisation: None.

Chronic effects – Respirable crystalline silica: Prolonged occupational inhalation of respirable (< 10 µm) crystalline silica dust may cause silicosis; silicosis increases the risk of lung cancer (IARC Monograph 100C, Group 1). THE PRODUCT AS SUPPLIED IN GRANULAR FORM DOES NOT PRESENT THIS RISK; the risk arises only from dust-generating mechanical processing and is controlled by the measures in Section 8.

SECTION 12: ECOLOGICAL INFORMATION

Natural inert mineral. Aquatic toxicity (quartz): LC50 (96 h, fish) = 19,095 mg/L – practically non-toxic.
Bioaccumulation and persistence criteria not applicable. No mobility in soil/water. Not PBT/vPvB.

SECTION 13: DISPOSAL CONSIDERATIONS

Uncontaminated product is inert waste; dispose of in accordance with local waste regulations. Suggested EWC code: 01 04 09 (waste sand and clays). Packaging (PE pouch/cardboard case) is recyclable – 15 01 02 / 15 01 01.

SECTION 14: TRANSPORT INFORMATION

NOT DANGEROUS GOODS under ADR/RID (road/rail), IMDG (sea) or IATA (air). No UN number, transport hazard class or packing group assigned.

SECTION 15: REGULATORY INFORMATION

- Regulation (EC) No 1907/2006 (REACH) – exempt from registration under Annex V, entry 7
- Regulation (EC) No 1272/2008 (CLP) – not classified
- Directive (EU) 2017/2398 – binding OEL for respirable crystalline silica
- Turkish KKDİK Regulation (O.G. 30105) and SEA Regulation (O.G. 28848)
- TS EN 196-1 / EN 196-1 / ISO 679 – product standards

Chemical safety assessment: Not performed (registration exemption).

SECTION 16: OTHER INFORMATION

Issue date / Revision	17.08.2026 / Rev. 02
Prepared by	Seyman Maden Quality Department – Ebubekir Mehmet KAYA (Quality Manager)
Note	As the substance is not classified as hazardous, this SDS is provided voluntarily for recipient information (REACH Art. 31 not mandatory; Art. 32 communication).
Abbreviations	TWA: Time-weighted average · RCS: Respirable crystalline silica · OEL:

Occupational exposure limit

This SDS is based on our present knowledge for safe handling; it does not constitute a warranty of product properties. Users must verify suitability for their own conditions of use.