

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



NORMENSAND
Made in Germany

Product: **Test sand**

Revised: 03.01.2022

Version: 1.0

Replacement for all previous versions

Effective from: 03.01.2022

Print date: 03.01.2022

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Material name: Test sand
Synonym: CEN Standard sand, Control sand, Reference sand
EG-Nr.: 238 - 878 - 4
REACH-Registration number: Exception from the registration requirement according to annex V of REACH-Regulation (EC) No. 1907/2006, since natural material.

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Use of the material

Test sand is a specific quartz sand which characterized by a defined grain size distribution and a high requirement on a steady quality.

Test sand is used for compressive strength testing of cement according to DIN EN 196-1, for functional testing of sieves, for determination of the peak-to-valley height on the surface of horizontal concrete beds and for the verification of the performance of vacuum cleaner according to DIN EN 60312.

1.2.2 Uses advised against

None.

1.3. Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier: Normensand GmbH
Street address/P.O. Box: Hans-Böckler-Str. 20
Country ID/Postcode/Place: 59269 Beckum
Telephone number: +49 2521 / 82 88 80
Telefax: +49 2521 / 82 88 82 0
Information provided by: +49 2521 / 82 88 80 Telephone Administration
E-mail address of competent person responsible for the SDS: normensand@zemnet.de

1.4. Emergency telephone number

Emergency telephone number: Giftinformationszentrum Mainz – Tel.: +49 (06131) 19 240
Hours of operation: 24 hours / 7 days
Service is provided in following languages: German, English

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

The material is classified as not dangerous according to Regulation (EC) No. 1272/2008 [CLP].

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2.1.2 Additional Information

None.

2.2. Label elements

No labeling requirement, because the material is classified as not dangerous according to Regulation (EC) No. 1272/2008 [CLP].

2.3. Other hazards

None.

Test sand does not meet the criteria for PBT or vPvB according to Annex XIII of the REACH-Regulation (EC) No. 1907/2006.

SECTION 3: Composition/information on ingredients

3.1. Substances

EC-No.: 238 - 878 - 4

EC Name: Quartz

Purity: 100 %

Additional Information:

The material consists essentially of silicon dioxide SiO₂.

3.2. Mixtures

Not applicable, since the product is a material.

SECTION 4: First aid measures

4.1. Description of first aid measures

Following eye contact

Wash out the sand particles with water. Do not rub eyes dry, because mechanical stress may cause damage to conjunctiva and/or cornea. If irritation persists, consult a physician for safety.

Following skin contact

No first aid measures necessary. Remove sand particles with water. If irritation persists, consult a physician for safety.

Following inhalation

No first aid measures necessary. If feeling unwell, seek medical advice.

Following ingestion

No first aid measures necessary. If feeling unwell, seek medical advice.

Information for the doctor

No allergic reactions known, insoluble quartz sand (silicon dioxide).

4.2. Most important symptoms and effects, both acute and delayed

Mechanical skin and eye irritation may occur.

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4.3. Indication of any immediate medical attention and special treatment needed

None. If a doctor is consulted, please submit this Safety Data Sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

The material is not flammable.

Suitable extinguishing media: Adapt to the surrounding area.

Unsuitable extinguishing media: None.

5.2. Special hazards arising from the substance or mixture

None.

5.3. Advice for firefighters

No special measures are required, as Test sand do not pose any fire-related hazards. Adapt extinguishing media to the surrounding area.

Special protective equipment for fire fighter

None.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

No special measures are necessary. Avoid dust formation. Use appropriate personal protective equipment (see section 6.4).

6.1.2 For emergency responders

Not required.

6.2. Environmental precautions

Not required. Avoid dust formation (see section 6.4).

6.3. Methods and material for containment and cleaning up

Collect spilled material mechanically and keep in suitable containers. By using a vacuum cleaner or wet cleaner with suitable device, a dust development can be avoided.

Spilled material **cannot** be used for standard test application.

6.4. Reference to other sections

For personal precautions: see section 8

For disposal: see section 13

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Avoid dust formation.
- Do not eat, drink or smoke in work areas.
- Wear suitable working clothes.
- Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

No special conditions.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Type of assessment value | Assessment Value | | Top limit | | origin | Monitoring methods, e.g. |
|--|------------------|--|------------------------|--------|--------------------------|--------------------------|
| General dust limit (e.g. for Germany) | | | | | | |
| Workplace limit value | 8 h | 1,25 mg/m ³ (A) 10 mg/m ³ (E) | 2 (II) 15 min | 20 (E) | TRGS 900 | TRGS 402 |
| Quartz (fine fraction) | | | | | | |
| Assessment standard | | 0,05 mg/m ³ (A) | Transgression factor 8 | | TRGS 559 | - |
| European occupational exposure limit | 8 h | 0,1 mg/m ³ (A) | | | Directive (EU) 2017/2398 | - |

A = Alveolar dust fraction

E = Inhalable dust fraction

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8.2. Exposure controls

8.2.1 Appropriate engineering controls

Closed systems:

Ensure dust removal systems.

Semi-closed or open systems:

Ensure dust removal systems or a good ventilation or moistening of the material.

8.2.2 Individual protection measures, such as personal protective equipment

General:

Do not drink, eat or smoke at work. Wash hands before breaks and after work.

Eye/face protection:

There is no direct exposure to the material Test sand. If the laboratory and working conditions (use of further substances) are appropriate, wear protective goggles.

Skin protection:

There is no direct exposure to the material Test sand. If the laboratory and working conditions (use of further substances) are appropriate, wear suitable gloves.

Inhalation protection:

In case of dust development, it is appropriate to wear a dust mask type P1 or FFP1 (relevant EN standard, e.g. EN 149, or national standard).

8.2.3 Environmental exposure controls

Not necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- | | |
|---|---|
| a) Appearance: | fine quartz sand / gray to yellow-brown |
| b) Odor: | odorless |
| c) Odor threshold: | none, since odorless |
| d) pH (T = 20 °C): | neutral |
| e) Melting point: | 1710 °C |
| f) Initial boiling point and boiling range: | not applicable |
| g) Flash point: | not applicable |
| h) Evaporation rate: | not applicable |
| i) Flammability (solid, gas): | not-flammable |
| j) Upper/lower inflammability or Explosion limit: | not applicable |
| k) Vapor pressure: | not applicable |
| l) Vapor density: | not applicable |
| m) Relative density: | 2,55 g/cm ³ - 2,70 g/cm ³ |
| n) Solubility (T = 20 °C): | insoluble |
| o) Partition coefficient: | not applicable |
| p) Auto-ignition temperature: | not applicable |
| q) Decomposition temperature: | not applicable |
| r) Viscosity: | not applicable |
| s) Explosive properties: | not explosive |
| t) Oxidizing properties: | not applicable |

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9.2. Other information

Not applicable, Test sand is a solid material.

SECTION 10: Stability and Reactivity

10.1. Reactivity

This material is not reactive under normal ambient conditions.

10.2. Chemical stability

This material is stable under normal ambient conditions.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5. Incompatible materials

There is no additional information.

10.6. Hazardous decomposition products

Not applicable, since there is no hazardous reactions known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Test sand (quartz sand) has no toxicological effects.

- | | |
|---|---------------------------------------|
| a) Acute toxicity (oral, inhalation und dermal): | not toxic. |
| b) Skin corrosion/irritation: | not corrosive or irritating. |
| c) Serious eye damage/irritation: | causes slight to moderate irritation. |
| d) Sensitization of Respiratory/Skin: | not sensitizing. |
| e) Germ cell mutagenicity: | not mutagenic. |
| f) Carcinogenicity: | not cancer-inducing. |
| g) Reproductive toxicity: | not toxic for reproduction. |
| h) Specific target organ toxicity (STOT) – single exposure: | not toxic for single exposure. |
| i) Specific target organ toxicity (STOT) – repeated exposure: | not toxic for repeated exposure. |
| j) Aspiration hazard: | not hazardous. |

11.2. Information on other dangers

11.2.1. Endocrine properties

Not applicable.

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11.2.2. Other information

Not applicable.

SECTION 12: Ecological information

Negative environmental impacts are not known. Test sand (quartz sand) is a weathering product of crystalline rocks of the earth's crust, which are removed from the sedimentary layers near the surface.

12.1. Toxicity

- The material shall not be classified as hazardous.
- No aquatic toxicity.
- Non-toxic in sewage treatment plants.

12.2. Persistence and degradability

- Not applicable: inorganic substance.
- No photo- or chemical degradability and no biodegradability expected..

12.3. Bioaccumulative potential

- Not applicable: inorganic substance.
- Significant bioaccumulation is not expected

12.4. Mobility in soil

- Slight to non-mobile in solid.
- Elution of the main components (SiO_2) is not expected.

12.5. Results of PBT and vPvB assessment

- This material does not meet the criteria for classification as PBT or vPvB.

12.6. Endocrine properties

- Not applicable.

12.7. Other adverse effects

- Not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1 Packaging

Dispose of completely emptied packing according to national regulations or recycle.

13.1.2 Waste treatment

Residues of quartz sand can be disposed as non-hazardous waste. The national disposal regulations apply. No further waste treatment is required.

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13.1.3 Further recommendations for disposal

Spilled material can be collected and used for applications with reduced requirements on e.g. grain size distribution. Spilled material **cannot** be used for standard test application.

SECTION 14: Transport information

Test sand is no subject to transport regulations (IMDG, IATA, ADR/RID). No dangerous goods classification is required.

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulatory Information

- Regulation (EC) No. 1907/2006 of the European Parliament and the Council of 18. December 2006 for the registration, evaluation, authorization and restriction of chemicals (REACH), with additions.
- Regulation (EC) No. 1272/2008 of the European Parliament and the Council of 16. December 2008 on the classification, labelling and packing of substance and mixtures, with amendments: The material is not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].

National legislation/requirements (e.g. Germany)

- TRGS 900 Occupational Exposure Limits (General dust limits)
- Hazardous Substances Ordinance (GefStoffV), Prohibition of Chemicals Ordinance (ChemVerbotsV)
- Water hazard class (according to AwSV): not hazardous to water

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15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for Test sand.

SECTION 16: Other information

16.1 Indication of changes

Not applicable.

16.2 Classification and procedure used to derive the classification for substances according to Regulation (EC) 1272/2008 [CLP]

Not applicable.

16.3 Disclaimer

The information given in this Safety Data Sheet describes exclusively the safety requirements of the product and is based on our currently available knowledge. The information is intended to give you advice about the safe handling of the product named in this Safety Data Sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this Safety Data Sheet is not necessarily valid for the new created material. Existing laws, decrees and regulations, including those not mentioned in this Safety Data Sheet, are to be observed by the recipient of our products on their own responsibility.