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## **Section 1: Identification of substance and of the company**

### **1.1 Product identifier:**

Substance name: DMT Mecca sand  
Synonym: Test dust for environment simulation  
EG-No: 238-878-4  
CAS-No: 14808-60-7  
REACH-No: -  
Other names: -

### **1.2 Relevant identified uses of substance or mixture and uses advised against:**

Relevant identified uses: Test dust for filter & environment simulation testing  
Uses advised against: -

### **1.3 Details of the supplier of the safety data sheet:**

Supplier: DMT GmbH & Co. KG  
Address: Am Technologiepark 1  
Nationality/Postcode/City: D-45307 Essen  
Information Contact: testdust@dmt-group.com  
Telephone / Fax / E-Mail: +49 201 172 1232 / +49 201 172 1262 / testdust@dmt-group.com

### **1.4 Emergency telephone number:**

Germany: (0)-112

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## **Section 2: Hazard identification**

### **2.1 Classification of the substance or mixture:**

DMT Mecca sand contains respirable fraction of quartz (> 10 %). Long-lasting and intensive inhalation of the crystalline respirable fraction can cause silicosis. As the main symptoms irritation of the throat, breathing trouble and dyspnea are mentioned. According to TRGS 906, using of respirable quartz has a carcinogenic effect on humans.

#### **EG Regulation 1272/2008:**

Class: STOT RE1

Category: 1

Hazard statement:

H372 Causes damage to organs through prolonged or repeated exposure via inhalation.

DMT Mecca sand contains more than 10% of respirable fraction of quartz.

### **2.2 Label elements:**

**Labelling according to Regulation (EG) No 1272/2008**

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**GHS 08**

**Signal word: DANGER!**

Hazard statements:

H372

Causes damage to organs through prolonged or repeated exposure via inhalation.

Precautionary statements:

P260

Do not breathe dust.

P264

Wash hand and face thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P284

In case of inadequate ventilation, wear respiratory protection.

P314

Get medical advice if you feel unwell.

P402

Store in a dry place.

**2.3 Supplemental hazard information:**

-

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**Section 3: Composition / Information of ingredients**

**3.1 Substance:**

Substance name:	Quartz (SiO <sub>2</sub> )
EG-No:	238-878-4
CAS-No:	14808-60-7
Content:	> 98%

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**Section 4: First aid measures**

**4.1 Description of first aid measures:**

General information:	In persistent symptoms, contact the doctor.
Following inhalation:	Remove dust source and provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.
Following skin contact:	Wash with soap and water.
Following ingestion:	Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.
Self-protection of the first aider:	Avoid dust whirling.

**4.2 Most important symptoms and effects, both acute and delayed:**

Symptoms:	DMT Mecca sand can increase the risk of silicosis through prolonged or repeated exposure.
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**4.3 Indication of any immediate medical attention and special treatment needed:**

Notes for doctor: Please consider section 4.1

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**Section 5: firefighting measures**

**5.1 Extinguishing media:**

Suitable extinguishing media: Adapt measures to surroundings.

Unsuitable extinguishing media: -

**5.2 Special hazards arising from the substance or mixture:**

Hazard combusting products: No, DMT Mecca sand is not combustible.

**5.3 Advice for fire-fighters:**

Avoid further dust whirling.

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**Section 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

**For non-emergency personnel:**

Protective equipment: Please consider section 8.

Emergency procedures: Please consider section 8.

**For emergency personnel:**

Personal protective responders: Please consider section 8.

**6.2 Environment precautions:**

Avoid dust generation; do not remove the dust in canalization, surface or groundwater.

**6.3 Methods and material for containment and cleaning up:**

For containment: Avoid dust whirling.

For cleaning up: Use wet-cleaning methods.

Other information: -

**6.4 Reference to other sections:**

Please consider section 8.

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**Section 7: Handling and Storage**

**7.1 Precautions for safe handling:**

**Protective measures:**

Advice on safe handling: Avoid dust generation and –deposit; provide artificial ventilation.

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Fire preventions: -  
Aerosol and dust generation prevention: Avoid dust generation and –deposit; provide artificial ventilation.  
Environment precautions: -

**Advice on general occupational hygiene:**

-

**7.2 Conditions for safe storage conditions:**

**Technical measures and storage conditions:**

Packaging materials: Store in a dry place.

**Requirements for storage rooms and vessels:**

Store dry and impermeable. Use original container. Keep away from foods and drinks.

**Hints on storage assembly:**

Storage class: -

Material to avoid: -

**Further information on storage conditions:**

-

**7.3 Specific end uses:**

Recommendations: -

Specific end uses: -

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**Section 8: Exposure controls / personal protection**

**8.1 Control parameters:**

Occupational exposure limits: 1,25 mg/m<sup>3</sup> (A; respirable), 10 mg/m<sup>3</sup> (E; inhalable) (Germany)

Biological limit values: -

**8.2 Exposure controls:**

Eye / Face protection: Wear safety goggles with side protection.

Skin protection: Safety gloves are recommended. Wash hands with soap before and after work, use skin protection cream.

Respirable protection: Wear filtering face piece (FFP2 – FFP3).

Body protection: Not recommended

Environment exposure controls: Filtering of exhaust air from artificial ventilation is recommended.

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**Section 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties:**

Appearance: Powder

Physical state: Solid

Color: Greyish / white

Odour : Odourless

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Odour threshold :	-
pH :	5 - 8 (DIN ISO 787, Section 9)
Melting point / freezing point :	> 1700 °C
Initial boiling point / boiling range :	-
Flash point :	-
Evaporation rate :	-
Flammability ( solid, gas)	-
Upper / lower explosive limits :	-
Vapour pressure :	-
Vapour density :	-
Relative density :	2.65 g/cm <sup>3</sup>
Solubility:	In Water: negligible; in hydrofluoric acid: yes
Partition coefficient: n-octanol / water	-
Auto-ignition-temperature :	-
Decomposing temperature :	-
Viscosity :	-
Explosive properties :	-
Oxidizing properties :	-

## 9.2 Other information:

-

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### Section 10: Stability and reactivity

#### 10.1 Reactivity:

No dangerous reactions or dangerous products of decomposing known.

#### 10.2 Chemical stability:

Under regular use and storage is DMT Mecca sand stable.

#### 10.3 Possibility of hazardous reactions:

No hazardous reactions.

#### 10.4 Conditions to avoid:

-

#### 10.5 Incompatible materials:

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**10.6 Hazard decomposition products:**

None

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**Section 11: Toxicological information**

**11.1 Information of toxicological information:**

During longer exposition with high dust loads symptoms of a chronical respiratory inflammation can be observed. Dust may harm eyes mechanically.

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**Section 12: Ecological information**

**12.1 Toxicity:**

No toxic impact known.

**12.2 Persistence and degradability:**

Not applicable for inorganic substances.

**12.3 Bio accumulative potential:**

Not applicable for inorganic substances.

**12.4 Mobility on soil:**

Due to low water solubility substance shows minor mobility in common soils.

**12.5 Results of PBT and vPVB assessment:**

Not applicable for inorganic substances.

**12.6 Other adverse effects:**

-

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**Section 13: Disposal considerations**

**13.1 Waste treatment methods:**

The disposal of DMT Mecca sand has to be proceeded according to local disposal directives.

**Directive 2008/98/EC (Waste Framework directive):** Consult local disposal provider for exact directives.

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**Section 14: Transport information**

**14.1 UN. No:**

-

**14.2 UN proper shipping name:**

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**14.3 Transport hazard class(es):**

Hazard label: -

**14.4 Packing group:**

-

**14.5 Environment hazard:**

-

**14.6 Special precautions for user:**

During transportation use impermeable containers to avoid dust whirling.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:**

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**Section 15: Regulatory information**

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

EU regulations:

DMT Mecca sand is not a hazardous material, not a material according to European directive 96/82/EG („SEVESO“), does not harm ozone layer and is not a hardly degradable pollutant.

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**Section 16: Other information**

**16.1** The entire safety data sheet is based on actual knowledge and experience. A juridical mandatory warranty of single properties cannot be provided. Employees must be instructed to handling bulk materials and dusting materials.

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