

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Arizona Dust TD STOT RE1 ISO 12103

Revision: 3/17/2026

Product code: KSL0028

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Arizona Dust TD STOT RE1 ISO 12103

Further trade names

Arizona dust ARIZ-TD, in accordance with ISO 12103-1

Substance name: Desert sand, naturally occurring
CAS No: 14808-60-7
EC No: 238-878-4

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

Test dust

1.3. Details of the supplier of the safety data sheet

Company name: KSL staubtechnik gmbh
Street: Westendstraße 11
Place: D-89415 Lauingen
Telephone: +49 (0) 9072 95 00-0 Telefax: +49 (0) 9072 95 00-50
E-mail: info@ksl-staubtechnik.de
Contact person: Dr. R. Stadler Telephone: +49 (0) 9072 95 00-0
E-mail (Contact person): info@ksl-staubtechnik.de
Internet: www.ksl-staubtechnik.de

1.4. Emergency telephone number:

+49 (0) 9072 / 95 00-0 (Availability: Mon-Thu 08:00-16:00, Fri 08:00-12:00)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

STOT RE 1 H372

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

H372 Causes damage to organs (lung) through prolonged or repeated exposure (inhalation, skin contact).

Precautionary statements

P260 Do not breathe dust or mist.
P270 Do not eat, drink or smoke when using this product.
P284 In case of inadequate ventilation wear respiratory protection.
P501 Dispose of contents/container to an appropriate recycling or disposal facility.

2.3. Other hazards

The product is an inorganic substance, does not fulfil the criteria for PBT and vPvB substances according to Annex XIII of REACH Regulation 1907/2006/EC.

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SECTION 3: Composition/information on ingredients**3.1. Substances****Relevant ingredients**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
14808-60-7	Desert sand, naturally occurring	100%
	238-878-4	
	STOT RE 1 H372	

Full text of H and EUH statements: see section 16.

Further Information

This product contains more than 10% respirable quartz and is therefore classified as STOT RE1.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

If symptoms persist, it is advisable to consult a doctor. Tell the doctor what substance/product was involved and what measures were taken.

After inhalation

Provide fresh air. Dust from the throat and nose should be removed quickly. If symptoms such as discomfort, coughing or persistent irritation occur, consult a doctor. Inhalation should generally be avoided.

After contact with skin

Wash off with soap and water.

After contact with eyes

Consult an ophthalmologist. If necessary, remove the contact lens and rinse the eye under running water with the eyelid open to remove all particles. If possible, use isotonic eye solution (0.9% NaCl). Do not rub the eye dry, as additional corneal damage is possible due to the mechanical stress.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

Repeated inhalation of larger quantities over a longer period of time increases the risk of lung diseases (silicosis). The main symptoms of silicosis are coughing and breathing problems / shortness of breath. May cause eye irritation (due to exposure to foreign bodies).

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

No special measures are known.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

none

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

none

Additional information

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No measures are required as the substance is not flammable.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Avoid dust formation. Wear protective clothing as described in Section 8. Follow the instructions for safe handling as described in Section 7.

For emergency responders

Emergency plans are not required. However, respiratory protection is necessary in case of high dust exposure.

6.2. Environmental precautions

No special environmental measures are necessary.

6.3. Methods and material for containment and cleaning up**For containment**

Avoid generating dust.

For cleaning up

Avoid inhalation. Avoid dry sweeping. Use approved spray and suction systems for cleaning. Use personal protection equipment.

Other information

Blowing off for cleaning purposes is not permitted.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid dust formation and accumulation. Handle packaged products carefully to prevent the packaging from bursting. Areas where dust is generated must be equipped with suitable ventilation systems. If the workplace atmosphere is not sufficiently dedusted, wear suitable respiratory protection (in accordance with EN 143). Gloves according to EN 374 are recommended.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

When using do not eat, drink, smoke, sniff. Wash hands thoroughly after handling. Wear a dust mask and safety goggles in dusty atmospheres.

Further information on handling

Only sweep with a suitable broom. For cleaning, use suitable methods such as vacuum suction that are as dry as possible and do not cause dust to form.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store in a dry place, tightly sealed, preferably in the original container. Keep away from food and beverages.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

No special measures are necessary.

7.3. Specific end use(s)

Use appropriately and sparingly with suitable test equipment depending on the intended use. No additional information is available for the specific end uses (see section 1.2). Further information can be found in the guide to good practice on protecting workers' health through good handling and use of crystalline silica and products

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containing it (see section 16).

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

8.2. Exposure controls**Appropriate engineering controls**

Avoid dust formation. Use of closed processes and local extraction equipment to keep the dust concentration below the permissible exposure level. Use a ventilation system if there is a high proportion of dust in the air. If dust formation cannot be avoided, the dust content of the air must be kept below the exposure limit values by ventilation. Application of organisational measures, e.g. by keeping people away from dusty areas. Recommended measurement methods for workplace measurements: See publication series of the Employer's Liability Insurance Association.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear closed safety goggles in accordance with EN 166 if dust is generated.

Hand protection

People who suffer from dermatitis or have particularly sensitive skin should take suitable protective measures (e.g. wear gloves or use protective cream). Wash hands before breaks and after work. Gloves according to EN 374 are recommended.

Skin protection

No personal protective equipment is necessary when used as intended. Handle the product in accordance with the safety instructions. Do not eat, drink or smoke at work. Wash hands and shower if necessary before breaks and at the end of work. Avoid contact with eyes and skin. After work, workers should wash or shower and use skin care products. Clean contaminated clothing, shoes, watches, etc. before reuse.

Respiratory protection

Install effective extraction and / or ventilate sufficiently. If the permissible exposure limit values are exceeded at the workplace, a respirator mask must be worn that complies with the applicable EU or national regulations (e.g. particle filter P2 or P3 in accordance with EN 143). Class 2 or 3 half or full face masks (FFP2 - FFP3) are recommended.

Environmental exposure controls

See also sections 6 and 7.

Air: Avoid drifting due to wind. Compliance with the dust emission limit values in accordance with the Technical Instructions on Air Quality Control.

Water: Waste water and groundwater supply must be observed.

Soil: Compliance with the Federal Soil Protection Ordinance. No special control measures required.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	solid
Colour:	brownish
Odour:	odourless
Melting point/freezing point:	> 1610°C °C
Boiling point or initial boiling point and boiling range:	not applicable
Flammability:	not applicable
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	not applicable

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Decomposition temperature:	not applicable
pH-Value (at 20 °C):	5 - 8 (400 g/l)
Viscosity / kinematic:	not applicable
Water solubility:	negligible
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	not applicable
Vapour pressure (at 20 °C):	not applicable
Vapour pressure (at 50 °C):	not applicable
Density:	not determined
Relative density:	2,5 - 2,7
Relative vapour density:	not applicable
Particle characteristics:	X50 value: 2µm - 25µm

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

Quartz is completely oxidised and chemically stable under normal conditions, non-combustible and non-flammable. It is a rock-forming mineral. Its behaviour under the influence of temperature is known from its use as a raw material in porcelain and glass production.

Further Information

not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions are known if stored and handled properly.

10.2. Chemical stability

The fabric is sturdy.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Moisture and water during storage can lead to clumping and loss of product quality.

10.5. Incompatible materials

none

10.6. Hazardous decomposition products

none

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

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Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (Desert sand, naturally occurring)

May cause silicosis, a dust lung disease, through repeated exposure.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Irritation of the eyes or respiratory tract due to foreign bodies is possible.

Additional information on tests

Chronic effects with prolonged exposure:

This product is contaminated with more than 10% respirable quartz and is therefore classified as STOT RE1 according to the criteria defined in Regulation (EC) No 1272/2008. Prolonged and/or intense exposure to dust containing respirable crystalline silica may cause silicosis. This disease is a nodular pulmonary fibrosis caused by inhalation and deposition of mineral dust. In 1997, the International Agency for Research on Cancer (IARC) concluded that occupational exposure to crystalline silica can cause lung cancer in humans. However, the IARC qualified that this does not apply to all forms of exposure or all types of crystalline silica. (IARC Monographs on the Evaluation of Carcinogenic Risks to Humans from Chemicals, Silica, Siliceous Dusts and Organic Fibres, 1997, Volume 68, IARC, Lyon, France). In 2003, the EU Scientific Committee on Occupational Exposure Limits to Chemical Agents (SCOEL) concluded that the main effect of inhalation of respirable crystalline silica dust in humans is silicosis. "There is sufficient information to conclude that there is an increased relative risk of lung cancer for people suffering from silicosis. People working in quarries or in the ceramics industry who are exposed to silica dust but do not suffer from silicosis are obviously not affected by this increased risk of lung cancer. It can therefore be assumed that avoiding silicosis also reduces the risk of cancer..." (SCOEL SUM Doc 1994-final, June 2003). There is therefore ample evidence that an increased risk of lung cancer is limited to people who already have silicosis. The protection of workers from silicosis should be ensured by adhering to the occupational exposure limits set by the authorities and, if necessary, by implementing additional risk management measures (see section 16).

11.2. Information on other hazards**Endocrine disrupting properties**

Quartz has no endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other information

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008).

SECTION 12: Ecological information**12.1. Toxicity**

Based on available data, the classification criteria are not met.

The product is not ecotoxic.

12.2. Persistence and degradability

Quartz is not biodegradable.

12.3. Bioaccumulative potential

No data available as no data is available from the raw material supplier.

12.4. Mobility in soil

No data available as no data is available from the raw material supplier.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

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12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.
No data available as no data is available from the raw material supplier.

12.7. Other adverse effects

No data available as no data is available from the raw material supplier.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Can be disposed of in accordance with local authority regulations. Discuss the exact waste code with the waste disposal company.

Pick up the product dry. Avoid dust formation.

Contaminated packaging

010410 - dusty and powdery waste

150106 - mixed packaging according to material recycling

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

Downstream user conditions or monitoring arrangements:

The product is not subject to the registration requirements of EC Regulation 1907/2006 (REACH).

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

- - non-hazardous to water

Additional information

TRGS 500 TRGS 510 TRGS 559 TRGS 900 TRGS 906 Regulation on occupational health care (ArbMedVV) BG principles for occupational health check-ups

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Abbreviations and acronyms**

STOT RE 1: Specific target organ toxicity - repeated exposure, hazard category 1

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

EC/EEC: European Community/European Economic Community

EU: European Union

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

M-factor: Multiplying factor

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

IATA: International Air Transport Association

DGR: Dangerous Goods Regulations

ICAO: International Civil Aviation Organization

TI: Technical Instructions

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MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Key literature references and sources for data

We refer to information provided by raw material suppliers/manufacturers and the ECHA database on classification and labelling as sources for the most important data and technical information.

Relevant H and EUH statements (number and full text)

- | | |
|------|---|
| H372 | Causes damage to organs (lung) through prolonged or repeated exposure (inhalation, skin contact). |
| H372 | Causes damage to organs through prolonged or repeated exposure. |

Further Information

The information in this safety data sheet describes the safety requirements of our product and is based on our current state of knowledge. It does not constitute a guarantee of product properties and does not establish a contractual legal relationship. This safety data sheet is intended solely as a source of information for the user. It has been compiled with the utmost care however, no guarantee can be given for the accuracy of the data, nor can any liability be accepted for the consequences of printing, typesetting or transmission errors. Existing laws, regulations and rules, including those not mentioned in this data sheet, must be observed by the recipient of our products on their own responsibility.