

Safety Data Sheet

DANSAND® Stone Dust

Replaces date: 15/03/2018

Revision date: 01/02/2024
Version: 2.0.0

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

1.1. Product identifier

Trade name: DANSAND® Stone Dust

Article no

Article no	Description
600010	Dark

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

Recommended uses: Jointing stone dust for tiles and paving.

Inadvisable uses: None.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Dansand A/S
Address: Lervejdal 8b, Addit
Zip code: 8740
City: Brædstrup
Country: DENMARK
E-mail: info@dansand.dk
Phone: 86 82 58 11
Homepage: <https://dansand.dk/>
Contact person: Name: Morten Grundvad, E-mail: mg@dansand.dk

1.4. Emergency Telephone Number

In case of a medical emergency following exposure to a chemical call NHS 111 - only available in certain areas of England (outside of these areas call NHS Direct on 0845 4647). The National Poisons Information Service emergency number is 0344 892 0111 (only available to health professionals).
The emergency telephone is open 24 hours.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

Most serious harmful effects: Dust may irritate eyes and airways.
May have a slight drying/irritating effect on skin.

2.2. Label elements

Supplemental information

EUH210 Safety data sheet available on request.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.
The product does not contain any endocrine disruptors.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes	CLP-classification
Quartz, not respirable	14808-60-7 238-878-4 -	> 92.5 %		
Silicic acid, sodium salt	1344-09-8 215-687-4 01-2119448725-31	< 5 %		Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H335

Please see section 16 for the full text of H- / EUH-phrases.

Ingredient comments: The product contains no respirable dust (particle size less than 0.005 mm: 0 %) at delivery.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	Seek fresh air. If necessary wash out mouth with water and blow nose thoroughly.
Ingestion:	Immediately rinse mouth and drink plenty of water. Seek medical advice in case of persistent discomfort.
Skin contact:	Wash skin with water and apply fat cream if necessary. Seek medical advice in case of eczema or other skin discomforts.
Eye contact:	Rinse immediately with water. Open eyes wide. Remove any contact lenses. Seek medical advice if irritation persists.
Burns:	Not relevant.
General:	When obtaining medical advice, show the safety data sheet or label.

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

Dust may irritate eyes and airways.
May have a slight drying/irritating effect on skin.

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

No special immediate treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Non-combustible. Use extinguishing media appropriate to surrounding fire conditions.
Unsuitable extinguishing media:	None known.

5.2. Special hazards arising from the substance or mixture

None known.

5.3. Advice for firefighters

Coordinate with fire in surroundings. If there is a risk of exposure to vapour and fumes, wear a full-face positive-pressure self-contained breathing apparatus and gloves resistant to chemicals.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Use tight fitting goggles if dust is generated.
In case of risk of inhalation of dust, use respiratory protective equipment.

For emergency responders: Use tight fitting goggles if dust is generated.
In case of risk of inhalation of dust, use respiratory protective equipment.

6.2. Environmental precautions

Do not discharge into drains or water courses.

6.3. Methods and material for containment and cleaning up

Sweep up/collect spills for possible reuse or transfer to suitable waste containers.
Avoid dust generation. Dampen spillage with water if necessary.

6.4. Reference to other sections

See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid inhalation of dust.
Avoid formation of dust.
Avoid contact with eyes.
Eye wash should be available.
See section 8 for information about precautions for use and personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry place.

7.3. Specific end use(s)

Specific end use – see section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m ³	fiber/cm ³	Remarks	Comments
Mineral dust	8h		10		inhalable dust	
Mineral dust	8h		4		respirable	
(Quartz (silica, respirable crystalline (respirable fraction))	8h		0.1		Carc (where generated as a result of a work process)	

Measuring methods: Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

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Legal basis: EH40/2005 Workplace exposure limits (Fourth Edition 2020).

PNEC

Silicic acid, sodium salt, cas-no 1344-09-8				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	7,5 mg/l			
PNEC aqua (intermittent releases (fresh water))	7,5 mg/l			
PNEC aqua (marine water)	1 mg/l			
PNEC STP (wastewater-treatment facilities)	348 mg/l			

DNEL - workers

Silicic acid, sodium salt, cas-no 1344-09-8					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	5,61 mg/m ³		NOAEC	Repeated dose toxicity	
Dermal DNEL (long-term exposure - systemic effects)	1,59 mg/kg bw/day		NOAEL	Repeated dose toxicity	

DNEL - general population

Silicic acid, sodium salt, cas-no 1344-09-8					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	1,38 mg/m ³			Repeated dose toxicity	
Dermal DNEL (long-term exposure - systemic effects)	0,8 mg/kg bw/day		NOAEL	Repeated dose toxicity	
Oral DNEL (long-term exposure - systemic effects)	0,8 mg/kg bw/day		NOAEL	Repeated dose toxicity	

8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation.

Wear the personal protective equipment specified below.

Wash hands before breaks, eating, toilet visits and after work. Use mild soap and water and apply skin cream after washing.

Personal protective equipment, eye/face protection:

Wear tight fitting safety goggles if work is dusty.
Eye protection must conform to EN 166.

Personal protective equipment, hand protection:

For prolonged or repeated skin contact the use of plastic or rubber gloves is advisable.

Personal protective equipment, respiratory protection:

Wear a half mask or full-face mask with P2 or P3 filter if work is dusty.
Respiratory protection must conform to one of the following standards: EN 136/140/149.

Environmental exposure controls:

No special requirements.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Fine-grained material
Colour	Dark
Odour	None
Solubility	Insoluble in water

Parameter	Value/unit	Remarks
Odour threshold	ppm	Not applicable
Melting point	°C	1710 °C (quartz sand)
Freezing point	°C	No data available
Initial boiling point and boiling range	°C	2230 °C (quartz sand)
Flammability (solid, gas)		Not applicable
Flammability limits		Not applicable
Explosion limits	vol%	Not applicable
Flash Point	°C	Not applicable
Auto-ignition temperature	°C	Not applicable
Decomposition temperature	°C	Not applicable
pH (solution for use)		Approx. 11 (100 g/l water)
pH (concentrate)		Not applicable
Kinematic viscosity	cSt	Not applicable
Viscosity	cP	Not applicable
Partition coefficient n-octanol/water		Not applicable
Vapour pressure	kPa	Not applicable
Density		2.85 g/cm ³
Relative density	g/cm ³	No data available
Vapour density		Not applicable
Relative density (sat. air)		Not applicable
Particle characteristics		Particle size: > 0.005 mm

9.2. Other information

Other Information: None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

No risk of hazardous reactions.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

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Hydrogen fluoride (hydrofluoric acid).

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

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

Acute toxicity - oral

Silicic acid, sodium salt, cas-no 1344-09-8

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		3400 mg/kg bw			

Ingestion of large quantities may cause discomfort.

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - dermal

Silicic acid, sodium salt, cas-no 1344-09-8

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000 mg/kg bw			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation

Silicic acid, sodium salt, cas-no 1344-09-8

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (dust/mist)	4h	> 2.06 g/m ³			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation:

Dust may have a slight drying/irritating effect on skin.

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Serious eye damage/eye irritation:

Dust in the eyes may cause irritation/mechanical irritation.

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Respiratory sensitisation or skin sensitisation:

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Germ cell mutagenicity:

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Carcinogenic properties:

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Reproductive toxicity

Silicic acid, sodium salt, cas-no 1344-09-8

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	NOAEL		> 159 mg/kg bw/day			
Mouse	NOAEL		> 200 mg/kg bw/day			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

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Single STOT exposure: Inhalation of dust may cause irritation of the airways.
The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Repeated STOT exposure

Silicic acid, sodium salt, cas-no 1344-09-8

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	NOAEL		159 mg/kg bw/day			

The product contains no respirable silica dust at delivery.
The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Aspiration hazard: No hazards.

11.2. Information on other hazards

Endocrine disrupting properties: The product does not contain any endocrine disruptors.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

Silicic acid, sodium salt, cas-no 1344-09-8

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Brachydanio rerio		96hLC50	1108 mg/l			
Fish	Oncorhynchus mykiss		96hLC50	260 - 310 mg/l			
Fish	Brachydanio rerio		96hNOEC	348 mg/l			
Crustacea	Daphnia magna		48hEC50	1700 mg/l			
Algae	Scenedesmus subspicatus		72hEC50	207 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

12.2. Persistence and degradability

The product is not biodegradable.

12.3. Bioaccumulative potential

Does not bioaccumulate.

12.4. Mobility in soil

Negligible.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

The product does not contain any endocrine disruptors.

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12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Any left-over product should be disposed of in accordance with local regulations.

Category of waste: 17 01 07 mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06

SECTION 14: Transport information

14.1. UN number or ID number: Not applicable.

14.4. Packing group: Not applicable.

14.2. UN proper shipping name: Not applicable.

14.5. Environmental hazards: Not applicable.

14.3. Transport hazard class(es): Not applicable.

14.6. Special precautions for user

None.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Other Information: The product is not classified as dangerous goods.

SECTION 15: Regulatory information

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

Special Provisions: EH40/2005 Workplace exposure limits (Fourth Edition 2020).

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
2.0.0	01/02/2024	Susanne Brandt Hansen	Changes in section 1, 2, 3, 4, 7, 8, 9, 11, 12, 13, 14, 15 and 16.

Abbreviations:

PBT: Persistent, Bioaccumulative and Toxic.
vPvB: very Persistent and very Bioaccumulative.
CLP: CLP-Regulation (EC) No 1272/2008 (Classification, Labelling and Packaging).
PNEC: Predicted No Effect Concentration.
DNEL: Derived No Effect Level.
NOAEC: No Observable Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
Skin Irrit.: Skin irritation.
Eye Irrit.: Eye irritation.
STOT SE: Specific target organ toxicity — single exposure.

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LD50: Lethal Dose 50 %.
LC50: Lethal Concentration 50 %.
EC50: Effect Concentration 50 %.
NOEC: No Observed Effect Concentration.

Other Information:

The safety data sheet is prepared from information provided by the supplier about physical/chemical properties and all ingredients in the product.
The safety data sheet has been prepared for and applies to this product only.
The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.

Training advice:

The user must be instructed in the proper work procedure and be familiar with the contents of this safety data sheet.

Classification method:

Calculation based on the hazards of the known components.

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Supplemental hazard information

EUH210 Safety data sheet available on request.

SDS is prepared by

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