

## 1 Identification of the Product and Supplier

Product name:	<b>GroutAid®</b>
Product application:	For rock and soil injection in combination with hydraulic cements or lime.
Address/Phone No.:	<b>Elkem ASA, Silicon Products</b> P.O. Box 334 Skøyen N-0213 Oslo, Norway Telephone: + 47 22 45 01 00 <a href="https://www.elkem.com/silicon-products/">https://www.elkem.com/silicon-products/</a>
Contact:	<a href="mailto:support.siliconproducts@elkem.com">support.siliconproducts@elkem.com</a>
REACH registration number:	01-2119486866-17-0000
REACH and CLP helpdesk:	REACH and CLP website: <a href="https://echa.europa.eu/support/helpdesks/">https://echa.europa.eu/support/helpdesks/</a>
Emergency Phone No.:	not applicable for non-hazardous substances.

## 2. Hazards Identification

Classification of the substance	The product does not meet the criteria for hazard classification according to Regulation (EC) No1272/2008 (CLP) and the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 9 <sup>th</sup> rev.).
Hazard pictogram:	N/A (not applicable)
Signal word:	N/A (not applicable)
Hazard statements:	N/A (not applicable)
Precautionary statements:	N/A (not applicable)

## 3. Composition/Information on Ingredients

Synonyms:	Processed Microsilica slurry, Aqueous slurry of amorphous silicon dioxide (H <sub>2</sub> O + SiO <sub>2</sub> ). Silica slurry. Silica fume.
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### Constituents (analysis):

CHEMICAL NAME	CAS #	EINECS #	% w/w
Silicon Dioxide (amorphous silica fume)	69012-64-2	273-767-1	48-52
Water	7732-18-5	231-791-2	balance

The product meets the criteria as a nanoform in accordance with Commission Recommendation 2011/696/EU.

#### 4. First Aid Measures

Inhalation: Not applicable. The product is an aqueous slurry.  
Skin contact: Wash contaminated skin with water and/or a mild detergent.  
Eye contact: Rinse eyes with water/saline solution. If discomfort persists, obtain medical attention.  
Ingestion: Not applicable.

#### 5. Fire Fighting Measures

The product is not combustible. If the slurry becomes dry, the dust poses no risk of explosion.

Extinguishing media: Not applicable. Depending on surrounding fire.

#### 6. Accidental Release Measures

Material should be collected in suitable containers.

#### 7. Handling and Storage

Handling: If the slurry becomes dry, avoid generating airborne dust. See section 8.  
Storage: Keep away from hydrofluoric acid (HF).  
Not to be stored at temperatures near to or below 0 °C

#### 8. Exposure Controls/Personal Protection

##### A. Occupational exposure controls:

Use protective gloves and eye protection. Facilities for eye flushing should be available.  
If the slurry becomes dry: Avoid inhalation of dust. Ensure good dust ventilation during use. Wear a particulate respirator according to EN 149 FFP 2S/3S in areas of inadequate ventilation.



##### Occupational Exposure Limits (ACGIH <sup>1)</sup>, 2016):

Substance	[CAS No.]	8hr TWA		ACGIH TLV 15 minute STEL		Notations
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
PNOS <sup>2)</sup>	-	-	10 <sup>(I)</sup> /3 <sup>(R)</sup>	-	-	-
Silica, crystalline (SiO <sub>2</sub> ) Quarz*	[14808-60-7]	-	0.025 <sup>(R)</sup>	-	-	A2
	Cristobalite* [14464-46-1]	-	0.025 <sup>(R)</sup>	-	-	A2

<sup>1)</sup> American Conference of Governmental Industrial Hygienists

<sup>2)</sup> Particulates (insoluble or poorly soluble) Not Otherwise Specified. Amorphous silica fume is considered to be PNOS. Specific TLVs for the individual substances have not been established or have been withdrawn, respectively.

<sup>(I)</sup> Inhalable fraction

<sup>(R)</sup> Respirable fraction

**B. Environmental exposure controls: (see also section 6, 7, 12)**

**Limit value for PM<sub>10</sub> and PM<sub>2.5</sub> (Directive 2008/50/EC):**

	<b>Averaging period</b>	<b>Limit value</b>
PM <sub>10</sub>	One day	50 µg/m <sup>3</sup> ★
PM <sub>10</sub>	Calendar year	25 µg/m <sup>3</sup>
PM <sub>2.5</sub>	Calendar year	15 µg/m <sup>3</sup>

★Not to be exceeded more than 30 times a calendar year.

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**9. Physical and Chemical Properties**

Form:	Slurry
Colour:	Grey
Odour:	Odourless
Solubility:	The particles are insoluble in water. Soluble in alkalis.
Solubility (Organic solvents):	The particles are insoluble/slightly soluble.
Specific Gravity (water =1):	Typical 1.4
pH:	Typical 4-7
Specific surface (m <sup>2</sup> /g) :	15-30
Particle size, mean (µm):	≈ 0.4 (≈ 80 weight % of primary particles have a diameter < 5 µm).

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**10. Stability and reactivity**

Conditions to avoid: Not to be stored at temperatures near to or below 0 °C.

Materials to avoid: Hydrofluoric acid (HF).

Hazardous Decomposition Product(s):

The product reacts with hydrofluoric acid (HF) forming toxic gas (SiF<sub>4</sub>).  
Heating The product above 1000 °C can result in the formation of crystalline SiO<sub>2</sub>-modifications as Cristobalite / Tridymite which may cause pulmonary fibrosis (silicosis).

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**11. Toxicological Information**

The product does not meet the criteria for hazard classification according to Regulation (EC) No 1272/2008 (CL) and the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 9<sup>th</sup> rev.).

**Acute effects:**

INGESTION:	Dry product: Finely divided dust from the product may cause irritation and dehydration of mucous membranes.
INHALATION:	Dry product: Finely divided dust from the product may cause irritation and dehydration of mucous membranes.
SKIN CONTACT:	Dry product: Finely divided dust from the product may cause irritation and dehydration.
EYE CONTACT:	Dry product: Finely divided dust from the product may cause irritation and dehydration.

### Chronic effects:

GroutAid<sup>®</sup> additive as slurry: Not applicable.

GroutAid<sup>®</sup> additive dried: Inhalation of dust from the product is considered to entail minimal risk of pulmonary fibrosis (silicosis). However, chronic obstructive lung disease is suspected following long term exposure (years) for concentrations above recommended occupational exposure limits.

### Endocrine disrupting properties:

The product is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU)2017/2100 or Commission Regulation (EU)2018/605.

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## 12. Ecological Information

The product is not characterised as dangerous for the environment.

MOBILITY: Not mobile under normal environmental conditions.

PERSISTENCE: Not relevant for inorganic substances.

BIOACCUMULATION: Not relevant.

ECOTOXICITY: The product does not meet the classification criteria for ecotoxicological endpoints in accordance with Regulation (EC) 1272/2008 (CLP) and the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 9<sup>th</sup> rev.).

**Endocrine disrupting properties:** The product is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU)2017/2100 or Commission Regulation (EU)2018/605.

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## 13. Disposal Considerations

The material should be recovered for recycling if possible.

This material is not classified as hazardous waste according to Commission Decisions 2000/532/EC and 2001/118/EC. Prior to disposal of large quantities of this material advice should be sought from the relevant Waste Regulation Authority.

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## 14. Transport Information

UN	-
IMDG/IMO	Not subject to classification
ADR/RID	Not subject to classification
ICAO/IATA	Not subject to classification

## 15. Regulatory Information

The text of this Product Safety Information is prepared in compliance with:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and subsequent amendments.
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP), amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
- UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS, 9<sup>th</sup> rev.).

## 16. Other Information

According to Chapter 1.5.2 of the UN Globally Harmonised System of classification and labelling of chemicals (GHS), Article 58 (2)(a), and Article 59(2)(b) of (EC) No 1272/2008 (CLP), which amends REACH article 31(1), safety data sheets (SDS) are only required for substances and mixtures that meet the harmonised criteria for physical, health or environmental hazards. Since this product does not meet these criteria, a SDS according to (EU) 2020/878 is not issued. In order to communicate relevant HSE-(health, safety and environmental-) information, this product safety information (PSI) is provided instead.

In accordance with REACH article 31(5), safety data sheets shall be supplied in an official language of the Member State(s) where the substance or mixture is placed on the market. This obligation, however, only applies for hazard-classified products which require a formal SDS. Since this product is not hazard-classified, the product safety information (PSI) is, in accordance with current regulation, provided in English language only.

REACH article 31(7) requires relevant exposure scenarios from the Chemical Safety Report (CSR) to be annexed to the SDS. However, according to REACH Annex I, section 0. (Introduction), subsection 0.6. no 4 and 5, exposure scenarios are only required for hazard-classified substances or mixtures. Since this product is not hazard-classified according to CLP, there is no requirement for exposure scenarios.

Literature references are available upon request.

GroutAid<sup>®</sup> is a registered trademark owned by Elkem ASA.

Changes from revision 01 to 02: New corporate address. Paragraph 2 in section 16. Updated ACGIH values.

Changes from revision 02 to 03: generic e-mail address inserted, removed reference to DPD directive, removed legal disclaimer, inserted reference to (EU) 2015/830 and GHS.

Changes from revision 03 to 04: company info (section 1) and limit values (section 8 B) updated.

Changes from revision 04 to 05: new company information: logo, email, web address (section 1), updated to GHS 9<sup>th</sup> rev, added paragraph endocrine disrupting properties ( 11 & 12), added nanoform information (3), Reference EU 2020/878,