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Material safety data sheet

Type 1000A1

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31

Revision: 02.03.2022
Replaces version from: 01.02.2021

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name:	Grouting compound type 1000A1 Comp. C, filler
Product description:	Grouting compound
Product code:	1000A1 Comp. C

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

Intended use:	Quartz mixture for epoxy mortar
Identified use:	For industrial, professional and consumer use

1.3. Details of the supplier of the safety data sheet

Name:	Kistler Instrumente AG
Address:	Eulachstrasse 22
District and Country:	8408 Winterthur, Switzerland
Contact:	+41 52 224 11 11 info@kistler.com, www.kistler.com

1.4. Emergency telephone

National 24h phone numer:	145
Swiss Tox Center:	+41 44 251 51 51 (from abroad)

2. Hazard identification

2.1. Classification of the substance or mixture

Classification according to (EC) Regulation 1272/2008:

Pysical hazards:	-
Health hazards:	-
Environmental hazards:	-

2.2. Label elements

Labelling according to (EC) regulation no. 1272/2008 [CLP/GHS]

Hazard pictograms:	-
Signal words:	-
Hazard statements:	-

Precautionary statements: P261: Avoid breathing dust / fume / gas / mist / vapours / spray.
P284: [In case of inadequate ventilation] Wear respiratory protection.
P501: Dispose of contents / container in accordance with local / regional / national/ international

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0.1%.
The product does not contain substances with endocrine disrupting properties in concentration >= 0.1%.

3. Composition/information on ingredients

3.1. Substances

Information not relevant.

3.2. Mixtures

Declaration of ingredients according to CLP (EC) No 1272/2008:

Identification	CAS-No. / EC-No. / Index-No. / Registration-No.	Classification	Concentration [% w/w]
Quartz (SiO_2)	14808-60-7 238-878-4 - -	-	50 ... 100
Quartz (respirable fraction)	14808-60-7 238-878-4 - -	STOT RE 1 H372	0.1 ... 1

The full wording of the hazard (H) phrases is given in section 16 of the sheet.

4. First aid measures

4.1. Description of first aid measures

Not specifically necessary. Observance of good industrial hygiene is recommended.

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

Symptoms: unknown

Risks: unknown

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

Information not available.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
Unsuitable extinguishing equipment:	None in particular

5.2. Special hazards arising from the substance or mixture

Hazards caused by exposure in the event of fire:	Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

5.3. Advice for firefighters

General information:	Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
Special protective equipment:	Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available.

8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

AUS	Österreich	Gesamte Rechtsvorschrift für Grenzwerteverordnung 2021 , Fassung vom 17.06.2021
BEL	Belgique	Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au travail
CHE	Suisse/Schweiz	Valeurs limites d`exposition aux postes de travail: VME/VLE (SUVA). Grenzwerte am Arbeitsplatz: MAK (SUVA)
DEU	Deutschland	TRGS 900 (Fassung 02.07.2021) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
HUN	Magyarország	Az innovációért és technológiáért felelös miniszter 5/2020. (II.6.) ITM rendelete a kémiai kóroki tényezök hatásának kitett munkavállalók egészségének és biztonságának védelméröl
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit

POL	Polska	Rozporzdzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniajace rozporzadzenie w sprawie najwyzszych dopuszczalnych stezen i natezen czynników szkodliwych dla zdrowia w srodowisku pracy
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
	TLV-ACGIH	ACGIH 2020

Identification	Type	Country	TWA/8h	STEL/15min	Note
Quartz (SiO_2 and respirable fraction)	MAK	AUS	0.05 mg/m³	-	respirable fraction
		CHE	0.15 mg/m³	-	respirable fraction, aerosol
		DEU	0.15 mg/m³	-	respirable fraction
	VLA	ESP	0.1 mg/m³	-	respirable fraction
	VLEP	BEL	0.1 mg/m³	-	-
		FRA	0.1 mg/m³	-	respirable fraction, aerosol
		ITA	0.1 mg/m³	-	respirable fraction
	TLV	DNK	0.3 mg/m³	0.6 mg/m³	inhalable fraction
		DNK	0.1 mg/m³	0.2 mg/m³	respirable fraction, aerosol
		NOR	0.1 mg/m³	-	respirable fraction
	HTP	FIN	0.05 mg/m³	-	respirable fraction
	AK	HUN	0.15 mg/m³	-	respirable fraction, aerosol
	TGG	NLD	0.075 mg/m³	-	respirable fraction, dust
	NDS/NDSCh	POL	0.1 mg/m³	-	respirable fraction
	NGV/KGV	SWE	0.1 mg/m³	-	respirable fraction
	TLV-ACGIH		0.025 mg/m³	-	Pulm fibrosis, lung cancer

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m³; PNOC inhalable fraction: 10 mg/m³). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

8.2. Exposure controls

Comply with the safety measures usually applied when handling chemical substances.

Hand protection: No special requirements. For those who suffer from dermatitis or with sensitive skin, we recommend the use of barrier creams and protective gloves.

Eye protection: Wear safety glasses with side shields in cases where there is a risk of eye injury from penetrating dust.

Skin protection: No special requirements. For those who suffer from dermatitis or have sensitive skin, the use of creams and protective clothing is recommended.

Respiratory protection:	In case of prolonged exposure to concentrations of dust dispersed in the air, wear a respiratory protective device that complies with the requirements of national and European legislation. The use of partial or complete face masks with filters against particles of category 2 or 3 (FP2 - FP3) is recommended. See EN 143: 2000 - Respiratory protective devices. Particles filters.
Environmental exposure controls:	The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Solid powder
Colour:	Beige
Odour:	odourless
Odour threshold:	No data available
pH:	No data available
Melting point/freezing point:	> 1610°C
Initial boiling point:	2230°C
Boiling range:	No data available
Flash point:	Not applicable
Evaporation rate:	No data available
Flammability of solids and gases:	No data available
Lower inflammability limit:	No data available
Upper inflammability limit:	No data available
Lower explosive limit:	No data available
Upper explosive limit:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	2-3
Solubility:	Insoluble in water
Partition coefficient:	
n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

9.2. Other information

Information not available.

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10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

Quartz (SiO_2 and respirable fraction):
Stable in normal conditions of use and storage.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

Quartz (SiO_2 and respirable fraction):
Stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The powders are potentially explosive when mixed with air.

Quartz (SiO_2 and respirable fraction):
Stable in normal conditions of use and storage.

10.4. Conditions to avoid

Avoid environmental dust build-up.

Quartz (SiO_2 and respirable fraction):
No specific data available.

10.5. Incompatible materials

Quartz (SiO_2)
No specific data available.

10.6. Hazardous decomposition products

Quartz (SiO_2 and respirable fraction):
None dangerous decomposition products at normal use and storage conditions.

11. Toxicological Information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

Acute toxicity

Acute oral toxicity LD50:	Not classified (no significant component)
Acute inhalative toxicity LC50:	Not classified (no significant component)
Acute dermal toxicity LD50:	Not classified (no significant component)

Skin corrosion/irritation

Does not meet the classification criteria for this hazard class

Serious eye damage/irritation

Does not meet the classification criteria for this hazard class

Respiratory or skin sensitisation

Does not meet the classification criteria for this hazard class

Germ cell mutagenicity

Does not meet the classification criteria for this hazard class

Carcinogenicity

Does not meet the classification criteria for this hazard class

Reproductive toxicity

Does not meet the classification criteria for this hazard class

STOT - Single exposure

Does not meet the classification criteria for this hazard class

STOT - Repeated exposure

Does not meet the classification criteria for this hazard class

Quartz (SiO_2):
Crystalline silica causes silicosis or other lung problems following prolonged exposure.

Quartz (respirable fraction):
Crystalline silica causes silicosis or other lung problems following prolonged exposure.

Quartz (SiO_2):
The product causes damage to the lungs in case of prolonged or repeated inhalation.

Quartz (respirable fraction):
The product causes damage to the lungs in case of prolonged or repeated inhalation

Aspiration hazard

Does not meet the classification criteria for this hazard class

12. Ecological information

12.1. Toxicity

Information not available.

12.2. Persistence and degradability

Information not available.

12.3. Bioaccumulative potential

Information not available.

12.4. Mobility in soil

Information not available.

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0.1%.

12.6. Endocrine disrupting effects

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation

12.7. Other adverse effects

Information not available.

13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Avoid littering. Do not contaminate soil, sewers and waterways. Waste transportation may be subject to ADR restrictions.

Contaminated packaging:	Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN 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. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

15. Regulatory information

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

Seveso Category - Directive 2012/18/EC:	None
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006:	None
Substances in Candidate List (Art. 59 REACH):	On the basis of available data, the product does not contain any SVHC in percentage greater than 0.1%.
Substances subject to authorisation (Annex XIV REACH):	None
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:	None

Substances subject to the Rotterdam Convention:	None
Substances subject to the Stockholm Convention:	None
Healthcare controls:	Information not available

15.2. Chemical Safety Assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

16. Other information

Text of hazard (H) indications

STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
H372	Causes damage to organs through prolonged or repeated exposure

Legend

ADR	European Agreement concerning the carriage of Dangerous goods by Road
CAS-no.	Chemical Abstracts Service
CLP	EC Regulation 1272/2008
DNEL	Derived No Effect Level
EC50	Effective concentration (required to induce a 50% effect)
EG-no.	Identifier in ESIS (European archive of existing substances)
EMS	Emergency Schedule
GHS	Globally Harmonized System of classification and labeling of chemicals
IATA	International Air Transport Association Dangerous Goods Regulation
IMDG	International Maritime Code for dangerous goods
IMO	International Maritime Organization
Index-no.	Identifier in Annex VI of CLP
LC50	Lethal Concentration 50%
LD50	Lethal dose 50%
OEL	Occupational Exposure Level
PBT	Persistent, bioaccumulative, and toxic as REACH Regulation
PNEC	Predicted no effect concentration
REACH	EC Regulation 1907/2006
RID	Regulation concerning the international transport of dangerous goods by train
TLV	Threshold Limit Value
TWA	Time-weighted average exposure limit
VOC	Volatile organic Compounds
vPvB	Very Persistent and very Bioaccumulative as for REACH Regulation

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.