

Revision date: 12.01.2024

**REF**

FINOVEST SPEED C+B Investment Material

40125/ 40126P

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

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**Further trade names**

QUARTZ

Product group:

Siliciumdioxide, kristall

UFI:

GX3K-W31T-U00W-1DPR

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

Auxiliary for manufacture of dental prothesis

**Uses advised against**

No information available.

**1.3. Details of the supplier of the safety data sheet**

Company name:

FINO GmbH

Street:

Mangelsfeld 18

Place:

D-97708 Bad Bocklet

Telephone:

+49-97 08-90 94 20

Telefax: +49-97 08-90 94 21

E-mail:

info@fino.com

Internet: www.fino.com

Contact person:

Joachim Mahlmeister

Telephone: +49-97 08-90 94 20

E-mail:

info@fino.com

Responsible Department:

This number can only be reached during our office hours, Monday to Friday from 8 a.m. to 5 p.m.

**1.4. Emergency telephone****number:**

+49-89-1 92 40

POISON CENTER München

24 hour(s) 7 day(s)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

Quartz

Cristobalite

Signal word:

Warning

Pictograms:

**Hazard statements**

H373

May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

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P314

Get medical advice/attention if you feel unwell.

P501

Dispose of contents/container to an appropriate recycling or disposal facility.

**Additional advice on labelling**

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008). STOT RE 1 10%  
Quartz and cristobalite fine dust.

**2.3. Other hazards**

Principal symptoms of silicosis are cough and breathing problems/dyspnoea.

The handling of the product should be used with caution in order to avoid dust formation.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Chemical characterization**

Not applicable. Product is not a substance.

Sum formula:

SiO<sub>2</sub>
**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
14808-60-7	Quartz			>5-<10%
	238-878-4			
	STOT RE 1; H372			
14464-46-1	Cristobalite			<2,50%
	238-455-4			
	STOT RE 1, STOT RE 2; H372 H373			
1309-48-4	Magnesium oxide			<1,0%
	215-171-9			

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

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

If unconscious but breathing normally, place in recovery position and seek medical advice.

Take off contaminated clothing and wash it before reuse.

**After inhalation**

Remove persons to safety.

Provide fresh air.

In case of irregular respiration or respiratory arrest apply artificial respiration.

Call a physician immediately.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.

**After contact with eyes**

Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

**After ingestion**

Rinse mouth thoroughly with water. No administration in cases of unconsciousness or cramps. Call a physician immediately.

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

No information available.

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

Treat symptomatically.

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

Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water spray jet, Foam

**Unsuitable extinguishing media**

Full water jet

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

No information available.

**5.3. Advice for firefighters**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. Wear a self-contained breathing apparatus and chemical protective clothing.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Avoid dust formation. Observe precautionary regulations.

Personal protection equipment: see section 8

**For non-emergency personnel**

Emergency procedures

Remove victim out of the danger area. Remove persons to safety. The danger areas must be delimited and identified using relevant warning and safety signs.

**For emergency responders**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Wear personal protection equipment (refer to section 8).

**6.2. Environmental precautions**

Do not allow to enter sewers/surface or ground water. Do not allow to enter into soil/subsoil.

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Following consultation with waste management company and after biological pre-treatment, landfill together with household waste.

**For cleaning up**

For cleaning, approved industrial vacuum cleaners are recommended, dust class:

Collect in closed and suitable containers for disposal.

**6.4. Reference to other sections**

See protective measures under point 7 and 8.

Treat the recovered material as prescribed in the section on waste disposal.

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

Keep container tightly closed. It is recommended to design all work processes always so that the following is excluded: Skin contact

**Advice on protection against fire and explosion**

Remove contaminated, saturated clothing immediately.

**Advice on general occupational hygiene**

The usual precautionary measures are to be adhered to when handling chemicals.

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

Wash hands before breaks and after work.

Remove contaminated, saturated clothing immediately.

Do not breathe dust.

Keep away from food, drink and animal feedingstuffs.

**Further information on handling**

Wash hands before breaks and after work. When using do not eat or drink. Remove contaminated, saturated clothing immediately. Keep away from food, drink and animal feedingstuffs.

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

Protect from moisture.

**Hints on joint storage**

Do not store together with: Explosive hazardous substances

**Further information on storage conditions**

Store under normal and dry conditions.

Keep container tightly closed in a cool, well-ventilated place.

Betriebssicherheitsverordnung (BetrSichV) ---

**7.3. Specific end use(s)**

Auxiliary for manufacture of dental prothesis

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
1344-28-1	Aluminium oxides, respirable dust	-	4		TWA (8 h)	WEL
1309-48-4	Magnesium oxide (as Mg), respirable dust	-	4		TWA (8 h)	WEL

**Additional advice on limit values**

TRGS 900 occupational exposure limit value

A: respirable fraction

E: inhalable fraction

**8.2. Exposure controls**

**Appropriate engineering controls**

Provide adequate ventilation. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Use suitable breathing apparatus.

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

Protective goggles with side protection recommendable. (DIN EN 166)

**Hand protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The precise time of rupture can be found out from the manufacturer of the protective gloves and must be observed.

**Skin protection**

Common occupational clothing.

**Respiratory protection**

Respiratory protection necessary at: Generation/formation of dust If workplace exposure limits are exceeded, respiratory protection must be worn. Filtering device with filter or ventilator filtering device of type: FP2 - FP3

**Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

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

Physical state:	solid
Colour:	white
Odour:	odourless

**Test method**
**Changes in the physical state**

Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Softening point:	not applicable
Flash point:	void

**Flammability**

Solid/liquid:	not flammable
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**Explosive properties**

no classification

Lower explosion limits:	---
Upper explosion limits:	---
Auto-ignition temperature:	void

**Self-ignition temperature**

Solid:	Product is not selfigniting.
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Decomposition temperature:	No data available
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pH-Value (at 20 °C):	5-7 (10 g/L)
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Viscosity / dynamic:	No data available
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Viscosity / kinematic:	No data available
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**Solubility in other solvents**

no classification

Partition coefficient n-octanol/water:	No data available
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Vapour pressure: (at 20 °C)	No data available
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Density:	No data available
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Bulk density (at 21 °C):	1200 - 1500 kg/m³ ISO 1183 (B)
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Relative vapour density:	No data available
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**9.2. Other information****Information with regard to physical hazard classes**

Sustaining combustion: No data available  
Oxidizing properties  
Not oxidising.

**Other safety characteristics**

Solvent separation test: no classification  
Solvent content: 60,00%  
Solid content: 12,00 %  
Evaporation rate: No data available

**Further Information**

Powder is hygroscopic, absorbs water and sets by releasing heat.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No decomposition if used according to specifications.

**10.4. Conditions to avoid**

Protect against: Humidity Water

**10.5. Incompatible materials**

No special precautionary measures.

**10.6. Hazardous decomposition products**

If the set investment material is pre-heated according to specifications in a pre-heating furnace approx. 1 mass-% ammonia (MAK-value 14 mg/m<sup>3</sup>) develop. Extract vapours and lead to the open.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

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

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

**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.

**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**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

Toxicological data are not available.

**Additional information on tests**

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

**Practical experience**

No special references.

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

No data available

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

Do not allow to enter into surface water or drains.

**12.2. Persistence and degradability**

none Evidence exists for biodegradation processes.

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No effects known.

**Further information**

Do not allow uncontrolled discharge of product into the environment.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Let powder residues set with water.

Regulation (EEC) No. 259/93 on the supervision and control of shipments of waste within, into and out of the European Community

**Contaminated packaging**

Non-contaminated packages may be recycled.

Dispose of waste according to applicable legislation. Delivery to an approved waste disposal company. Consult the appropriate authorities about waste disposal.

**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)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No special measures are necessary.

**14.7. Maritime transport in bulk according to IMO instruments**

No special precautionary measures.

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**EU regulatory information**

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

**Additional information**

The product is classified and labelled according to EC directives or corresponding national laws.

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**Additional information**

Betriebssicherheitsverordnung (BetrSichV) ---

"ZH 1/134 „Information on Breathing Protection""

"ZH 1/105 „Information on Protective Clothing""

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**
**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,9,11,12,15.

\* Data changed compared with the previous version.

**Abbreviations and acronyms**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

"IATA-DGR: Dangerous Goods Regulations by the ""International Air Transport Association"" (IATA)"

ICAO: International Civil Aviation Organization

"ICAO-TI: Technical Instructions by the ""International Civil Aviation Organization"" (ICAO)"

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



IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
STOT RE 2; H373	Calculation method

**Relevant H and EUH statements (number and full text)**

H372 Causes damage to organs through prolonged or repeated exposure.  
 H373 May cause damage to organs through prolonged or repeated exposure.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

**Identified uses**

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Auxiliary for dental technology	PW	20	0	0	4	0	94	100

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*