

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

FINOVEST SPEED LIQUID Special mixing liquid

REF 40129

**Further trade names**

SILICA

Product group: Siliciumdioxide, kristall  
CAS No: 7631-86-9  
EC No: 231-545-4

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

Auxiliary for manufacture of dental prosthesis

**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  
e-mail: info@fino.com  
Contact person: Joachim Mahlmeister  
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.

Telefax: +49-97 08-90 94 21

Internet: www.fino.com

Telephone: +49-97 08-90 94 20

**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**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**2.2. Label elements****Additional advice on labelling**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

**2.3. Other hazards**

The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

Not applicable. Product is not a substance.

Sum formula: SiO<sub>2</sub>  
Molecular weight: 60,08 g/mol

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
7631-86-9	Siliciumdioxide, colloidal			> 50 - < 70 %
	231-545-4			

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

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
7631-86-9	231-545-4	Siliciumdioxide, colloidal	> 50 - < 70 %
	inhalation: LC50 = > 0,14 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg		

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

If symptoms persist consult doctor. Immediately remove any contaminated clothing, shoes or stockings.

**After inhalation**

Provide fresh air. Remove affected person from the danger area and lay down.

**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**

Do NOT induce vomiting. Rinse mouth thoroughly with water. No administration in cases of unconsciousness or cramps. Call a physician immediately.

**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 special requirements measures.

**5.3. Advice for firefighters**

The product itself does not burn.

In case of fire: Wear self-contained breathing apparatus.

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

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

**General advice**

Provide adequate ventilation. Observe precautionary regulations.

**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**

Retain contaminated washing water and dispose it. Do not allow to enter sewers/surface or ground water.

**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.

**Other information**

Take up mechanically.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Treat the recovered material as prescribed in the section on waste disposal. Disposal: see section 13

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

None if stored and handled according to specifications.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Advice on general occupational hygiene**

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

Wash hands before breaks and after work.

Avoid contact with eyes and skin.

Remove contaminated, saturated clothing immediately.

Keep away from food, drink and animal feedingstuffs.

**Further information on handling**

No special handling advices are necessary.

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

Keep only in the original container. Always close containers tightly after the removal of product. Store upright.

**Hints on joint storage**

Not known.

**Further information on storage conditions**

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

Protect against frost.

storage temperature of °C 20 up to °C 30

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

Auxiliary for manufacture of dental prosthesis

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
7631-86-9	Siliciumdioxide, colloidal			
Worker DNEL, long-term		inhalation	systemic	4 mg/m <sup>3</sup>

**Additional advice on limit values**

The lists valid during the making were used as basis.

**8.2. Exposure controls**

**Appropriate engineering controls**

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

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

Wear eye/face protection. (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 protective clothing.

**Respiratory protection**

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

**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:	Liquid
Colour:	pink
Odour:	odourless

**Changes in the physical state**

Melting point/freezing point:	0 °C
Boiling point or initial boiling point and boiling range:	100 °C
Softening point:	not applicable

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Flash point: not determined

**Flammability**

Solid/liquid: not applicable

**Explosive properties**

not explosive.

Lower explosion limits: ---

Upper explosion limits: ---

Auto-ignition temperature: not applicable

**Self-ignition temperature**

Solid: Product is not selfigniting.

Decomposition temperature: not determined

pH-Value: 8,0 - 10,5

Viscosity / dynamic:  
(at 20 °C) 2 - 50 mPa·s

Water solubility: No data available

**Solubility in other solvents**

No data available

Partition coefficient n-octanol/water: not applicable

Vapour pressure:  
(at 20 °C) 20 hPaDensity (at 20 °C): 1,05 - 1,45 g/cm<sup>3</sup>

Relative vapour density: not applicable

**9.2. Other information****Information with regard to physical hazard classes**

Sustaining combustion: No data available

Oxidizing properties

The product itself does not burn.

**Other safety characteristics**

Solvent content: No data available

Solid content: not determined

Evaporation rate: not applicable

**Further Information****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 known hazardous reactions.

**10.4. Conditions to avoid**

No decomposition if used according to specifications.

**10.5. Incompatible materials**

cationic surfactants; Electrolyte

**10.6. Hazardous decomposition products**

No dangerous decomposition products known.

**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.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7631-86-9	Siliciumdioxide, colloidal				
	oral	LD50 > 5000 mg/kg	Rat	ECHA	OECD 401
	dermal	LD50 > 2000 mg/kg	Rabbit	ECHA	
	inhalation (4 h) dust/mist	LC50 > 0,14 mg/l	Rat	ECHA	OECD 403

**Irritation and corrosivity**

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**

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**

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

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

For this substance the summation method is not applicable when classification of respective mixtures is calculated.

**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**
**Other information**

If handled according to specifications and if common valid hygienic rules are observed health endangering effects have not been reported.

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

Environmental and ecotoxicological analyses of the product are not available.

**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.  
The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**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**

Consult the appropriate local waste disposal expert about waste disposal.

**Contaminated packaging**

Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation. Delivery to an approved waste disposal company.

Packing which cannot be properly cleaned must be disposed of. Consult the appropriate local waste disposal expert about waste disposal.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	UN 0000
<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.

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	UN 0000
<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>	UN 0000
<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>	UN 0000
<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**

Restrictions on use (REACH, annex XVII):

Entry 75

2004/42/EC (VOC):

none

Information according to 2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

Additional information:

0

**Additional information**

According to EC directives or the corresponding national regulations the product does not have to be labelled.  
The usual precautionary measures are to be adhered to when handling chemicals.

**National regulatory information**

Water hazard class (D):

- - non-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**

\* 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)

**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.



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