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

1.1. Product identifier

FINOPASTE DUO Silicone Putty

REF 15175 / 15176

Product group: Siliciumdioxide, kristall

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

Use of the substance/mixture

Addition-curing two-component silicone Auxiliary for manufacture of dental process
Addition-curing 1 : 1 silicone putty with a hardness of 85 Shore A.

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

Hazard categories:
Specific target organ toxicity - repeated exposure: STOT RE 2
Hazard Statements:
Causes damage to organs (...) through prolonged or repeated exposure.

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].
STOT RE 2 May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

void

Hazard statements

H372 Causes damage to organs (...) through prolonged or repeated exposure.

Additional advice on labelling

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

2.3. Other hazards

The mixture contains the following substances fulfilling the PBT criteria according to UK REACH:
octamethylcyclotetrasiloxane; [D4].
The mixture contains the following substances fulfilling the vPvB criteria according to UK REACH:
octamethylcyclotetrasiloxane; [D4].
Quartz and cristobalite fine dust.:
Components: B: of SiH-containing products. Silicon-Hydrogen

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Polydimethylsiloxane, inactive inorganic fillers. .
Components: A: Catalyst
Components: B: Base Polymethylhydrogensiloxane

Sum formula: SiO2

Molecular weight: 60,08 g/mol

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
14464-46-1	Cristobalite			25-<100%
	238-455-4			
	STOT RE 1, STOT RE 2; H372 H373			
8042-47-5	Paraffinum perliquidum DAB			1-10%
	232-455-8		01-2119487078-27	
	Asp. Tox. 1; H304			
556-67-2	octamethylcyclotetrasiloxane; [D4]			>0.0025-<0,025%
	209-136-7	014-018-00-1	01-2119529238-36	
	Repr. 2, Aquatic Chronic 1; H361f H410			

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		
8042-47-5	232-455-8	Paraffinum perliquidum DAB	1-10% %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg		
556-67-2	209-136-7	octamethylcyclotetrasiloxane; [D4]	>0.0025-<0,025% %
	Aquatic Chronic 1; H410: M=10		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special measures are necessary.

After inhalation

Under normal circumstances the product cannot be inhaled.

After contact with skin

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

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water.
Call a physician immediately.

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

No further data.

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

No specific information.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), Sand, Extinguishing powder

Unsuitable extinguishing media

Water, Extinguishing powder alkaline materials

5.2. Special hazards arising from the substance or mixture

Combustible

Components: B Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Special protective equipment for firefighters Full protection suit

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Wear personal protection equipment (refer to section 8).

Keep unprotected persons away. Special danger of slipping by leaking/spilling product.

Keep away from sources of ignition - No smoking.

For non-emergency personnel

Emergency procedures

Remove persons to safety. Remove victim out of the danger area.

The danger areas must be delimited and identified using relevant warning and safety signs.

For emergency responders

Use personal protection equipment.

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

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Take up mechanically.

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

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

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

Keep container tightly closed.

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.
When using do not eat or drink.
Wash hands before breaks and after work.

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 in a cool, well-ventilated place.
Keep container dry.

Hints on joint storage

Not required.

Further information on storage conditions

No special precautionary measures.

Betriebssicherheitsverordnung (BetrSichV) ---

7.3. Specific end use(s)

This substance/mixture does not contain any components in concentrations of 0,1 %, or higher than either persistent, bioaccumulative and toxic (PBT) or very persistent and are classified as highly bioaccumulative (vPvB).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

The lists valid during the making were used as basis.
MAK (CH) 0,15 a mg/m³

8.2. Exposure controls

Appropriate engineering controls

Does not contain substances above concentration limits fixing an occupational exposure limit.

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye protection: not required.

Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Suitable material: 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.

Permeation time (maximum wear duration):: Breakthrough times and swelling properties of the material must be taken into consideration. The precise time of rupture can be found out from the manufacturer of the protective gloves and must be observed.
Unsuitable material: NR (natural rubber, Natural latex)

Skin protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	grey (A) / blue (B)
Odour:	odourless

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Softening point:	not applicable
Flash point:	not determined

Flammability

Solid/liquid:	not applicable none

Explosive properties

not explosive according to EU A.14

Lower explosion limits:	---
Upper explosion limits:	---
Auto-ignition temperature:	> 400 °C

Self-ignition temperature

Solid:	Product is not selfigniting.
Gas:	none
Decomposition temperature:	not applicable
pH-Value:	not determined
Viscosity / dynamic:	---
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.

Solubility in other solvents

no classification

Partition coefficient n-octanol/water:	not applicable
Vapour pressure:	not applicable
Density (at 20 °C):	1,9 g/cm³
Bulk density:	not determined
Relative vapour density:	not determined

9.2. Other information

Information with regard to physical hazard classes

Sustaining combustion:	No data available

Oxidizing properties

No ignition, explosion, self-heating or visible decomposition.

Other safety characteristics

Solvent content:	Organic solvents: -,- %

Maximum VOC content: - %

Evaporation rate: not determined

Further Information

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

Components: A: Not known.
Components: B:

10.4. Conditions to avoid

No risks worthy of mention.

10.5. Incompatible materials

Oxidising agent, strong, Alkali (lye)
B Components react with mobile hydrogen in the presence of metal salts or metal complexes.
Reactions with metals under the formation of hydrogen.

10.6. Hazardous decomposition products

Components: B Reacts with : Oxidising agent, strong, Alkali (lye), Amines
Reactions with metals under the formation of hydrogen. Danger of explosion.
In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2), Hydrogen, Do not breathe gas/vapour.

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.
No data available.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
8042-47-5	Paraffinum perliquidum DAB				
	oral	LD50 >5000 mg/kg	Rat	OECD	
	dermal	LD50 >2000 mg/kg	Rabbit	OECD	

Irritation and corrosivity

Based on available data, the classification criteria are not met.
May cause slightly temporary irritation to ocular mucos membranes.

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

Causes damage to organs (...) through prolonged or repeated exposure. (Cristobalite)
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

No data available.

Practical experience

No special references.

11.2. Information on other hazards

Other information

No special precautionary measures.

SECTION 12: Ecological information

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 mixture contains the following substances fulfilling the PBT criteria according to UK REACH:
octamethylcyclotetrasiloxane; [D4].
The mixture contains the following substances fulfilling the vPvB criteria according to UK REACH:
octamethylcyclotetrasiloxane; [D4].

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 information available.

Further information

Water hazard class slightly hazardous to water

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.
Dispose of waste according to applicable legislation.

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)

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.

Marine transport (IMDG)

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.
Segregation group:	9 - lead and its compounds

Air transport (ICAO-TI/IATA-DGR)

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.

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

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
octamethylcyclotetrasiloxane; [D4]

Restrictions on use (REACH, annex XVII):

Entry 70, Entry 75

2004/42/EC (VOC):	no classification
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.

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water hazard class (D):	1 - slightly hazardous to water

Additional information

No further data.

Betriebssicherheitsverordnung (BetrSichV) ---

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): 2,15.

Abbreviations and acronyms

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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Relevant H and EUH statements (number and full text)

H304	May be fatal if swallowed and enters airways.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs (...) through prolonged or repeated exposure.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Further Information

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
SU: Sectors of use
PC: Product categories
PROC: Process categories
ERC: Environmental release categories
AC: Article categories
TF: Technical functions

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