

Revision date: 21.11.2022

REF

FINOBLOC Block-out Material

21510

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

FINOBLOC Block-out Material

REF 21510

Further trade names

SILICA

GLYCERIN

Product group:

Siliciumdioxide, kristall

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

For the blocking-out of undercuts, as spacer, for the blocking of proximal spaces, for the set-up of impressions when casting.

Uses advised against

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

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

Repr. 2; H361

Full text of hazard statements: see SECTION 16.

2.2. Label elements
GB CLP Regulation
Hazard components for labelling

Siliciumdioxide, colloidal/Glycerin

Signal word:

Warning

Pictograms:


Hazard statements

H361

Suspected of damaging fertility or the unborn child.

Precautionary statements

P201

Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional advice on labelling

The product is classified and labelled according to EC directives or corresponding national laws.
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

2.3. Other hazards

Results of PBT and vPvB assessment not applicable.

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

Mixture from the below listed substances with harmless additives. Elastomer

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)			
7631-86-9	Siliciumdioxide, colloidal			>= 5 - < 10 %
	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	>= 5 - < 10 %
		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

Remove contaminated, saturated clothing immediately.
Wear suitable protective clothing.
Wash contaminated clothing prior to re-use.

After inhalation

Provide fresh air.
Seek medical attention if problems persist.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and 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 eye irritation consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water.
Seek medical attention if problems persist.

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

No specific information.

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 (CO₂), Dry extinguishing powder
In case of major fire and large quantities: Water spray jet, alcohol resistant foam.

Unsuitable extinguishing media

Not known.

5.2. Special hazards arising from the substance or mixture

On principle combustion gases of organic materials must be regarded as respiratory toxicants.

5.3. Advice for firefighters

Extinguishing, rescue and clearing work under the influence of combustion or smoulder gases must only be done using heavy-duty breathing equipment. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus. Use personal protection equipment.

Additional information

Dispose of waste according to applicable legislation.

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

Keep unprotected persons away.
Use personal protection equipment.

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect with a cloth or cellulose and dispose. Take up mechanically, placing in appropriate containers for disposal. Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Delivery to an approved waste disposal company.

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**

Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid contact with eyes.
Change contaminated, saturated clothing.
Wear suitable protective clothing.

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.

When using do not eat or drink.

Avoid contact with eyes and skin.

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 container tightly closed.

Keep/Store only in original container.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

No special precautionary measures.

Storage class

Betriebssicherheitsverordnung (BetrSichV) ---

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

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL

DNEL/DMEL values

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

Additional advice on limit values

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

8.2. Exposure controls

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

Dust protection eye glasses

Hand protection

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

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.

Thickness of the glove 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.

Breakthrough time::

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

Skin protection

Only wear fitting, comfortable and clean protective clothing. Take off contaminated clothing and wash it before reuse.

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Avoid release to the environment. Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	viscous Liquid
Colour:	whitish
Odour:	odourless

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	35 °C
Softening point:	not determined
Flash point:	> 101,1 °C

Flammability

Solid/liquid:	not determined
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Explosive properties

not explosive according to EU A.14

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:	not applicable
Viscosity / dynamic:	---
Viscosity / kinematic:	10 mm ² /s
Water solubility:	not determined

Solubility in other solvents

No data available

Partition coefficient n-octanol/water:	No data available
Vapour pressure:	1,06 hPa
Density:	not determined

Bulk density: not determined

Relative vapour density: ---

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: Organic solvents: -, - %

Maximum VOC content: - %

Solid content: not determined

Evaporation rate: ---

Further Information
SECTION 10: Stability and reactivity
10.1. Reactivity

no classification No information available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: Oxidising agent, strong

10.4. Conditions to avoid

Hazardous decomposition products Intense heating.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

Formaldehyde

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

Suspected of damaging fertility or the unborn child.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: 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

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**Other information**

No special precautionary measures.

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

If used and handled pertinently ecological problems are not to expect.

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 indication of bioaccumulation potential.

12.5. Results of PBT and vPvB assessment

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

This substance does 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 meet the criteria.

Further information

Do not allow to enter into surface water or drains.

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

Dispose of waste according to applicable legislation.

Consult the appropriate local waste disposal expert about waste disposal.

Delivery to an approved waste disposal company.

List of Wastes Code - residues/unused products

070712 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; sludges from on-site effluent treatment other than those mentioned in 07 07 11

List of Wastes Code - used product

070712 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; sludges from on-site effluent treatment other than those mentioned in 07 07 11

List of Wastes Code - contaminated packaging

200139 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); Plastics

Contaminated packaging

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

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

14.1. UN number or ID number: UN 0000
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: UN 0000
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: UN 0000
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.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 0000
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

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC): no classification

2004/42/EC (VOC): no classification

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

National regulatory information

Water hazard class (D): - - non-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

* Data changed compared with the previous version.

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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Repr. 2: Reproductive toxicity, Hazard Category 2

Relevant H and EUH statements (number and full text)

H361 Suspected of damaging fertility or the unborn child.

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

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.)