

Material Safety Data Sheet

According to Regulation (EC) No 1907/2006
(Amended by Regulation (EU) No 453/2010)

Created on:	23.03.2021	Product identifier:	Texturmarker Silver
Revised on:			
Valid from:	29.03.2021	Replaces version:	
Version:	1.0		

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

1.1. Product identifier

Texturmarker Silver

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

Relevant uses

Optical visualization of the texture of surfaces. Only for the professional user.

Uses advised against

Use only for the intended purpose.

1.3. Details of the supplier of the safety data sheet

Producer/Distributor	Benzer Dental AG
Street	Binzstrasse 15
ZIP / Location	CH-8045 Zürich
Phone	+41 (0)44 322 29 04
E-Mail	info@benzerdental.ch

1.4. Emergency telephone number

+41(0)44 251 51 51
Tox Info Suisse – www.toxinfo.ch

2. Hazards identification

2.1. Classification of the substance or mixture according CLP Regulation

Short-term acute water hazard, Cat. 1:	H400: very toxic to aquatic life
Long-term chronic hazard, Cat. 1:	H410: Very toxic to aquatic life with long lasting effect

2.2. Label elements according to Regulation (EC) Nr. 1272/2008 (substances)

Hazard pictograms



Signal word

Danger

Hazard statements

H410: Very toxic to aquatic life with long lasting effects.

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Precautionary statements

P273: Avoid release to the environment.

Reaction:

P391: Collect spillage.

Disposal:

P501: Dispose of contents/container to authorized waste disposal facility.

2.3. Other hazards

The ingredients in this mixture do not meet the criteria for classification as PBT or vPvB.

3. Composition/information on ingredients

Name : Texture Marker silver

Chemical constitution : Precious metal

Chemical Identifier	CAS-Nr. EG-Nr.	Classification according to Regulation (EC) No. 1272/2008	Concentration (%)
Silver	7440-22-4 231-131-3	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>=50- <=100

4. First aid measures

4.1. Description of first aid measures

General information

Bring affected people out from the danger area into the fresh air and lay them down. Do not leave them unattended.

After inhalation

Go to fresh air. If symptoms persist, consult a doctor. In case of unconsciousness place the effected person in the stable side position and seek medical advice.

After skin contact

Wash with plenty of water and soap. Remove contaminated clothes and shoes. Consult a doctor if skin irritation persists.

After eye contact

Rinse opened eye for several minutes under running water, Remove contact lenses. If symptoms persist, consult a doctor.

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After swallowing

Keep airways clear.
Do not give milk or alcoholic beverages.
Never give anything to an unconscious person.
If symptoms persist, consult a doctor.

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

Risks: Not known
Symptoms: Not known

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

Symptomatic treatment, no further information available.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents

Dry sand, special powder against metal fire, ABC-powder.

For safety reasons unsuitable extinguishing agents

Water jet.

5.2. Special hazards arising from the substance or mixture

Special hazards during fire fighting

Do not allow runoff water from fire fighting to get into sewage or watercourses.

5.3. Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.

Further Information

Usual measures for fires involving chemicals. Adapt extinguishing measures to the environment.

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Collect contaminated fire fighting water separately, it must not enter the sewage system. Fire residues and contaminated fire fighting water must be disposed of in accordance with local regulations.

6. Accidental release measures

6.1. Personnel precautions, protective equipment and emergency procedures

Use personal protective equipment. Bring people to safety. Avoid dust formation, remove all sources of ignition, avoid inhaling dust.

6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil. Inform the responsible authorities in case of pollution of waterways or sewers.

6.3. Methods and material for containment and cleaning up

Do not use vacuum cleaners. Handle in suitable, closed and appropriately labeled containers for disposal.

6.4. Reference to other sections

See Section 8 for information on personal protection equipment.

7. Handling and storage

7.1. Precautions for safe handling

Advice for safe handling

Avoid dust formation, clean regularly and ensure that no dust accumulates on the surfaces.
Store away from heat.

Personal protective equipment see section 8. Do not eat, drink or smoke in the area of application, rinse water must be disposed of in accordance with local and national regulations.

Information about fire and explosion protection

Usual measures of preventive fire protection, avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition.

Hygienic measures

Wash hands before breaks and at the end of work.

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7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles

Electric equipment must be state of the art in safety technology. Store only in the closed original container. Store in a cool, well-ventilated place in the original container. Keep away from sources of ignition, do not smoke.

Further information on storage conditions

Protect from humidity and water.

Information about storage in a common storage facility

The product is chemically stable.

Keep dry. No decomposition if stored and used as directed.

7.3. Specific end use(s)

Optical visualization of the texture of surfaces. Only for the professional user.

8. Exposure controls/personnel protection

8.1. Control parameters

Workplace limits

Ingredients	CAS-Nr.	Value type (type of exposure)	Parameters to be monitored	Bases
Silver	7440-22-4	TWA	0,1 mg/m ³	2000/39/EC
Further information	Indicative			
		MAK-Value (inhalable dust)	0,1 mg/m ³	CH SUVA
Further information	National Institute for Occupational Safety and Health, Occupational Safety and Health Administration.			
		KZGW (inhalable dust)	0,8 mg/m ³	CH SUVA
Further information	National Institute for Occupational Safety and Health, Occupational Safety and Health Administration			

8.2. Exposure controls

General protective and hygienic measures

Provide sufficient air exchange and / or exhaust ventilation in the workrooms.

Personal protective equipment

Breathing equipment:

If the MAK value is exceeded, use a breathing apparatus with a suitable filter; Filter type 1.

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Protection of hands and skin:

Wear suitable protective gloves. Long-sleeved work clothes. Safety shoes. Dustproof protective clothing. Selection of the glove material should take into account breakthrough times, permeation rates and degradation. Observe the manufacturer's specifications regarding permeability and breakthrough time as well as the special conditions at the workplace (mechanical load, contact duration). Protective gloves should be replaced on first signs of wear.

Eye protection: Tightly fitting goggles

Limitation and monitoring of environmental exposure

Water: The penetration of the product into the sewer system, watercourses or into the ground should be prevented

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

General information

Look:	Powder
Color:	gray/silver
Odor:	odorless
Odor threshold:	No data available
pH-Value:	No data available

Change of state

Melting point/Freezing point:	No data available
Boiling point/boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability/solid, gaseous):	No data available
Spontaneous ignition:	No data available
Auto-ignition temperature:	No data available
Glow temperature:	No data available
Decomposition temperature:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
Upper exposure limit /	
Upper flammability limit:	No data available
Lower exposure limit /	
Lower flammability limit:	No data available
Vapor pressure:	at 20°C No data available
Density:	at 20°C No data available
Relative vapor density:	No data available

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Relative density:	No data available
Bulk density:	No data available
Solubility in water:	at 20°C No data available
Solubility in other solvents:	No data available
Distribution coefficient: n-Octanol/Water	No data available
Decomposition temperature:	No data available
viscosity, dynamic:	No data available
viscosity, cinematic:	No data available
Expiry time:	No data available

9.2. Other information

No further information available.

10. Stability and reactivity

10.1. Reactivity

No decomposition if stored and used as directed.

10.2. Chemical stability

No decomposition if stored and used as directed.

10.3. Possibility of hazardous reactions

Dangerous reactions:	No decomposition if stored as directed. Stable under specified storage conditions. Dust can form explosive mixtures with air.
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10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Contact with water or moist air:	No data available.
Thermal decomposition:	No data available.

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11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Not classified according to the information available.

Product:

Acute oral toxicity:	No data available
Acute inhalation toxicity:	No data available
Acute dermal toxicity:	No data available

Caustic irritation on the skin

Not classified according to the information available.

Product:

Notes: According to the EU classifications, the product is not to be regarded as irritating to the skin.

Severe eye damage (-irritation)

Copper, can cause serious eye damage.

Respiratory/skin sensitization

Not classified according to the information available.

Sensitization through skin contact

Not classified according to the information available.

Sensitization through inhalation

Not classified according to the information available.

Germ cell mutagenicity

Not classified according to the information available.

Carcinogenicity

Not classified according to the information available.

Reproductive toxicity

Not classified according to the information available.

Specific target organ toxicity after single exposure

Not classified according to the information available.

Specific target organ toxicity after repeated exposure

Not classified according to the information available.

Aspiration toxicity

Not classified according to the information available.

12. Ecological information

12.1. Ecotoxicity effects

Ingredients:

Assessment of ecotoxicity

Short term (acute) : No data available.

Long-term (chronic) : No data available.

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12.2. Persistence and degradability

No data available.

12.3. Bioaccumulation potential

No data available.

12.4. Mobility in the ground

No information available.

12.5. Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No.1907 / 2006, Annex XIII.

12.6. Other harmful effects

Product:

Other ecological information: An environmental hazard cannot be ruled out in the event of improper handling or disposal. Very toxic to aquatic organisms with long-term chronic effects.

13. Disposal considerations

Waste treatment methods

Product

Disposal together with normal waste is not permitted. Special disposal according to local regulations is required. Do not empty into drains. For details contact the waste disposal company.

Contaminated packaging

Contaminated packaging is to be emptied, do not reuse empty containers. Dispose of containers like unused product. Do not incinerate or dispose of containers using a cutting torch, risk of explosion. Dispose of in accordance with local and national legal requirements.

14. Transport information

14.1. UN-Number

ADR:	UN 3077
IMDG:	UN 3077
IATA:	UN 3077
RID:	UN 3077
ADN:	UN 3077

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14.2. UN proper shipping name

ADR:	Environmentally hazardous substance, solid, N.A.G. (silver)
ADN:	Environmentally hazardous substance, solid, N.A.G. (silver)
RID:	Environmentally hazardous substance, solid, N.A.G. (silver)
IMDG-Code:	Environmentally hazardous substance, solid, N.O.S. (silver)
IATA-DGR:	Environmentally hazardous substance, solid, N.O.S. (silver)

14.3. Transport hazard classifications

ADN-Class :	9	
(Danger Label; Classification Code;		9; M7; 90;
Number to identify danger;		
ADR-Class :	9	
(Danger Label; Classification Code;		9;M7; 90; (E)
Number to identify danger;		
Tunnel restriction code)		Gold bronze
RID-Class:	9	
(Danger Label; Classification Code;		9; M7; 90
Number to identify danger)		
IMDG-Class:	9	
(Danger Label; EmS)		9; F-A, S-F
IATA (Freight):	9	
(Danger Label; Verpackungsanweisung Fracht;		9; 956
IATA (Passanger):	9	
(Danger Label; Passanger packing instructions;		9; 956; Y956
Packing instructions (LQ))		

14.4. Packing group

ADN:	III
ADR:	III
RID:	III
IMDG:	III
IATA (Freight)	III
IATA (Passenger)	III

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14.5. Danger to the environment

ADN Environmentally hazardous: Yes
 ADR Environmentally hazardous: Yes
 RID Environmentally hazardous: Yes
 IMDG Marine pollutant: Yes

14.6. Special precautions for user

Remark: not applicable

14.7. Transport in bulk according to Annex II of MARPOL Convention 73/78 and the IBC Code

IMDG: not applicable

15. Regulatory information

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

International chemical weapons convention (CWÜ): Not prohibited and/or restricted
 Lists of toxic chemicals and raw materials

REACH restrictions of manufacture, entry into force and use of: Not prohibited and/or restricted
 certain hazardous substances, preparations and products (Annex XVII)

Regulation (EC) No.649/2012 of the European parliament: Not prohibited and/or restricted
 and the council on the export and import of dangerous chemicals:

REACH-list of substances of very high concern that are eligible authorization (Art.59).:
 This product doesn't contain substances of very high concern (REACH regulation (EC)
 No.1907/2006, article 57)

REACH-list of substances subject to authorization (Annex XVII): Not prohibited and/or restricted

Regulation (EC) No.1005/2009 on substances, which lead: Not prohibited and/or restricted
 to the Depletion of the ozone layer

Regulation (EC) No.850/2004 on persistent organic pollutants: Not prohibited and/or restricted

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Seweso III: directive 2012/18/EU of the European parliament and the council to control the dangers of major accidents with hazardous substances.

	Amount 1	Amount 2
E1 Environmental hazards	100t	200t

The components of this product are listed in the following directories:

REACH:	This mixture only contains components that have been pre-registered in accordance with EC regulation No. 1907/2006 (REACH)
CH INV:	Is on the list or meets its requirements
TSCA:	On the TSCA-list
DSL:	All components of this product are on the Canadian DSL-list
AICS:	Is on the list or meets its requirements
NZIoC:	Is on the list or meets its requirements
ENCS:	Does not meet the requirements of the list
ISHL:	Does not meet the requirements of the list
KECI:	Is on the list or meets its requirements
PICCS :	Is on the list or meets its requirements
IECSC :	Is on the list or meets its requirements

Key

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan),

KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA), CH INV (Switzerland),

MY INV (Malaysia), TR INV (Turkey), TW INV (Taiwan)

15.2. Chemical safety assessment

Substance safety assessments for substances in this mixture were carried out.

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16. Other information

Full text of the dangers in sections 2 and 3:

H400 : Very toxic to aquatic organisms
H410 : Very toxic to aquatic organisms with long lasting effects.

Abbreviations:

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) hazardous to the aquatic environment
Aquatic Chronic : Long-term (acute) hazardous to the aquatic environment

Eye Irrit. : Eye irritation
CH SUVA : Limit values at the workplace
CH SUVA / MAK-Wert : Maximum workplace concentration value
CH SUVA / KZGW : Short term limit value

More Information:

The information contained in this safety data sheet is based on our knowledge at the time of revision and is intended to describe our products with regard to the safety precautions to be taken. They do not constitute a guarantee for the properties of the described product and no product information or product specification constitutes a contractual legal relationship. The data in the safety data sheet are not transferable to other products. If the product mentioned in this Material Safety Data Sheet is mixed or processed with other materials the data contained in this Material Safety Data Sheet may not be transferred to the new material unless expressly stated otherwise.