

Safety Data Sheet

according to Regulation (EC) No 1907/2006

microseal

Print date: 02.07.2014

Product code: D300035

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

1.1. Product identifier

microseal

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

1.3. Details of the supplier of the safety data sheet

Company name:	Saremco Dental AG	
Street:	Gewerbestrasse 4	
Place:	CH-9445 Rebstein	
Telephone:	+41 71 775 80 90	Telefax: +41 71 775 80 99
e-mail:	info@saremco.ch	
Contact person:	Dr. Christoph Evers	Telephone: +41 71 775 80 60
e-mail:	Christoph.evers@saremco.ch	
Internet:	www.saremco.ch	
Responsible Department:	Vigilance	

1.4. Emergency telephone

CH: 145

number:

Ausland: +41 44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: Xi - Irritant
 R phrases:
 Irritating to respiratory system and skin.
 Risk of serious damage to eyes.
 May cause sensitisation by skin contact.

GHS classification

Hazard categories:
 Skin corrosion/irritation: Skin Irrit. 2
 Serious eye damage/eye irritation: Eye Dam. 1
 Specific target organ toxicity - single exposure: STOT SE 3
 Hazard Statements:
 Causes skin irritation.
 Causes serious eye damage.
 May cause respiratory irritation.

2.2. Label elements

Hazardous components which must be listed on the label

BISPHENOL A GLYCEROLATE DIMETHACRYLATE
 Triethyleneglycoldimethacrylate

Signal word: Danger
 Pictograms: GHS05-GHS07



Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

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Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P321	Specific treatment (see ... on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
	ethox. BisGMA	35 - < 40 %
41637-38-1	Xi - Irritant R36/37/38-43	
216-367-7	BISPHENOL A GLYCEROLATE DIMETHACRYLATE	35 - < 40 %
1565-94-2	Xi - Irritant R41-43	
	Eye Dam. 1; H318	
203-652-6	Triethyleneglycoldimethacrylate	20 - < 25 %
109-16-0	Xi - Irritant R36/37/38	
	Eye Irrit. 2, STOT SE 3, Skin Irrit. 2; H319 H335 H315	
220-688-8	Methacrylic acid 2-(dimethylamino)ethyl ester	< 1 %
2867-47-2	Xn - Harmful R21/22-36/38-43	
	Iron Oxide black	< 0.1 %
1317-61-9		
215-168-2	Diiron Trioxide Red	< 0.1 %
1309-37-1	Xi - Irritant R36/37/38	
	Skin Irrit. 2, Eye Irrit. 2A, STOT SE 3; H315 H319 H335	

Full text of R and H phrases: see Section 16.

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SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Provide fresh air. @0401.B040022

After contact with skin

@1501.B150749 @0202.B020282 Medical treatment necessary.

After contact with eyes

@0404.B040024

After ingestion

Rinse mouth immediately and drink large quantities of water.

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**

Extinguishing materials should be selected according to the surrounding area.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical resistant suit. @0802.B080491.

Additional information

Use a water spray jet to knock down vapours/gases/mists. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eye and clothing. @0601.B060011

6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the assimilated material according to the section on waste disposal.

6.4. Reference to other sections

@0604.B060046

@0604.B060048

@0604.B060047

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

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.

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Advice on protection against fire and explosion

@0701.B070203

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Advice on storage compatibility

@0701.B070204

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1309-37-1	Rouge, total inhalable	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls



Appropriate engineering controls

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Take off immediately all contaminated clothing. @0802.B080564 @0802.B080411 When using do not eat or drink.

Eye/face protection

Suitable eye protection: @0802.B080539.

Hand protection

When handling chemical substances, chemical protective gloves must be worn with CE label including a four digit code. Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: viscous
 Colour:
 Odour: characteristic

Test method

pH-Value: not determined

Changes in the physical state

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Melting point: not determined
 Initial boiling point and boiling range: not determined
 Flash point: 110 °C

Flammability

Solid: not applicable
 Gas: not applicable

Lower explosion limits: not determined
 Upper explosion limits: not determined

Auto-ignition temperature

Solid: not applicable
 Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidizing.

Vapour pressure: not determined
 Density: not determined
 Water solubility: insoluble

Solubility in other solvents

not determined

Partition coefficient: not determined
 Vapour density: not determined
 Evaporation rate: not determined
 Solvent content: 0.01 %, water: 0.18 %

9.2. Other information

Solid content: 51.37 %

SECTION 10: Stability and reactivity

10.1. Reactivity

@1003.B100039

10.2. Chemical stability

Sensitivity to light.

10.3. Possibility of hazardous reactions

@1003.B100040

10.4. Conditions to avoid

UV-radiation/sunlight.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

@1006.B000002

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
109-16-0	Triethyleneglycoldimethacrylate				
	oral	LD50	> 2000 mg/kg	literature value	
1317-61-9	Iron Oxide black				
	oral	LD50	> 5000 mg/kg	Rat.	

Additional information on tests

@0201.B020384

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity: @0903.B092025

CAS No	Chemical name				
	Aquatic toxicity	Method	Dose	[h] [d]	Species
1317-61-9	Iron Oxide black				
	Acute fish toxicity	LC50	> 1000 mg/l	96 h	Leuciscus idus (golden orfe)

12.2. Persistence and degradability

product has not been tested.

12.3. Bioaccumulative potential

product has not been tested.

12.4. Mobility in soil

product has not been tested.

12.5. Results of PBT and vPvB assessment

product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Do not empty into drains or the aquatic environment. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not empty into drains or the aquatic environment. Do not allow to enter into soil/subsoil. Waste disposal according to official state regulations.

Contaminated packaging

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not a hazardous material with respect to these transportation regulations.

Marine transport (IMDG)

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Other applicable information (marine transport)

Not a hazardous material with respect to these transportation regulations.

Air transport (ICAO)

Other applicable information (air transport)

Not a hazardous material with respect to these transportation regulations.

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

1999/13/EC (VOC): 21.572 %

National regulatory information

Employment restrictions: Observe employment restrictions for young people.
Water contaminating class (D): 3 - highly water contaminating

15.2. Chemical safety assessment

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

SECTION 16: Other information

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
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Full text of R phrases referred to under Sections 2 and 3

21/22 Harmful in contact with skin and if swallowed.
36/37/38 Irritating to eyes, respiratory system and skin.
36/38 Irritating to eyes and skin.
37/38 Irritating to respiratory system and skin.
41 Risk of serious damage to eyes.
43 May cause sensitisation by skin contact.

Full text of H statements referred to under Sections 2 and 3

H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

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

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