

YETIVEST Special-Liquid

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Identification of the substance or preparation: *YETIVEST Special-Liquid Art.931-1000*

Use of the substance/preparation: Expansion Liquid for investment material

Company/undertaking identification: YETI Dentalprodukte GmbH
Industriestr.3
78234 Engen
GERMANY

Technical information: Application technique Tel. +49(0)7733-94100

Telephone / fax / email: +49(0)7733-94100 / +49(0)7733-941022
E-Mail:sdb@yeti-dental.com

Emergency telephone: +49 7733-9410-0 (Mo.-Thu. 8.00 –16.30, Fr.8.00 – 14.30)

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation

2.2 Pictogram, signal word, hazard information, safety information:

Not applicable

03. COMPOSITION/INFORMATION ON INGREDIENTS

chemical characterization Aqueous solution of colloidal silica Hazardous ingredients: not applicable -

Please see chapter 16. OTHER INFORMATION for the wording of the above mentioned R phrases.

Safety Data Sheet **YETI Dental GmbH**
According to (EG) No. 1907/2006 (REACH)

Respiratory protection:	not mandatory
Hand protection:	Protective gloves (Butylkautschuk 0,7mm / Nitrilkautschuk 0,4mm)
Eye protection:	goggles
Body protection:	no protective suite or boots are necessary if the product is used as indicated

b) Specific hygiene measures

The usual protective measures for handling chemical substances have to be observed.

c) Environmental exposure controls

Please see chapters 06. ACCIDENTAL RELEASE MEASURES and 07. HANDLING AND STORAGE. No further methods are required.

09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state:	liquid
Colour :	colourless
Odour :	odourless

Important health, safety and environmental information

Lower explosive limit :	Vol%	Upper explosive limit :	Vol%
Vapour pressure : (20 °C)	20 mbar	Vapour pressure : (50 °C)	mbar
Density : (20 °C)	g/cm ³	Bulk density : (20 °C)	g/cm ³
Viscosity: (20 °C)	<20 (dynamic) mPa*s		
Water solubility: (20 °C)	mixable g/l	pH value (20 °C)	approx. 10
Boiling point / range : (1013 mbar)	approx. 100°C	Setting point: (1013 hPa)	°C
Melting point:	°C	Solidification point:	°C
Flash point :	Not applicable	Ignition temperature :	Not applicable

The product is neither self-igniting nor explosive
Additional physical and chemical properties are not available.

10. STABILITY AND REACTIVITY

Conditions to Avoid: No relevant information available
Substances to be avoided: No relevant information available
Hazardous decomposition: products If used properly, none known.

15. REGULATORY INFORMATION

Other information

No dangerous good for transport, sensitive to temperatures below +5°C and above +35°C.

EC Regulations

No labelling necessary according to EU regulations.

Safety assessment

A safety assessment of ingredients of this preparation was not performed.

National regulations

Water hazard class

0 - not hazardous to water according to VwVwS, Annex 4 (Germany)

16. OTHER INFORMATION

Recommendations for use-restriction by the supplier

Only for professional, industrial use – not for public,

References: <http://www.baua.de>
<http://www.arbeitssicherheit.de>

The information given is based on our actual state of knowledge. The safety data sheet describes the product regarding safety requirements. The indications do not have the meaning of guaranties on properties. Not completed columns indicate that data are not available. Therefore they don't induce the presumption that there are no dangers in this column. The indications don't establish any legal relationship.

Safety Data Sheet

YETI Dental GmbH

According to (EG) No. 1907/2006 (REACH)

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

YETIVEST (Art.930-0160 / 932-0000)

Use of the substance/preparation:

Investment material to fabricate moulds for the casting process of dental alloys

Company/undertaking identification: YETI Dentalprodukte GmbH, Industriestr.3, 78234 Engen, GERMANY

Technical information: Anwendungstechnik (Telefon +49(0)7733-94100)

Telephone / fax / email: +49(0)7733-94100 / +49(0)7733-941022/ E-Mail: sdb@yeti-dental.com

Emergency telephone: 07733-94100 (Mo-Do.8.00 – 16.30 Fr. 8.00 – 14.30 Uhr)

02. HAZARDS IDENTIFICATION

Hazard identification and hazards to man and the environment

Avoid generation of dust. Inhalation may lead to silicosis.

03. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Mixture of silica, magnesium oxide and ammonium phosphate

Hazardous ingredients

Chemical name	Concentration [% by weight]	CAS No.	Index No.	R phrases	Hazard symbols
Silicium dioxide	60 - 100	14464-46-1			
Magnesium oxide	5 - 15	01309-48-4			
(NH ₄)H ₂ PO ₄	5 - 15	7722-76-1			

Ingredients with EC concentration limits

Please see chapter 16. OTHER INFORMATION for the wording of the above mentioned R phrases.

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Vorlage: Yeti2/QM-neu/SDB/Yeti/01.08.08

Erstellt am/von: 09.06.2009/JB
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Seitenzahl: 1-21

04. FIRST AID MEASURES**Inhalation**

Move exposed person to fresh air immediately

Eye contact

immediately rinse with plenty of water keeping the eyes wide open

Skin contact

wash immediately with soap and water

Ingestion

Never try to induce vomiting

05. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

CO₂, foam, water spray, powder

Extinguishing media which shall not be used for safety reasons

strong water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

This material is not combustible

Special protective equipment for fire-fighters

-

06. ACCIDENTAL RELEASE MEASURES**Personal precautions and methods for cleaning up**

When spilled, wipe up immediately. Avoid generation and inhalation of dust!

Environmental precautions

Please see chapters 08. EXPOSURE CONTROLS/PERSONAL PROTECTION and 13. DISPOSAL CONSIDERATIONS

07. HANDLING AND STORAGE**Precautions for safe handling and conditions for safe storage**

Store containers tightly closed; avoid contact with moist air or water.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational exposure limit values and/or biological limit values****Minimisation of exposure and exposure control****a) Equipment for individual protection**

The type of equipment for individual protection has to be chosen according to concentration and quantity of hazardous compounds.

Respiratory protection

yes

Eye protection

goggles

Hand protection**Skin protection**

No protective suite or boots are necessary, if the product is used as indicated.

b) Specific hygiene measures

Don't eat, drink or smoke while working with this material. Exposure limits for silica is 0,15 mg/m³.

c) Environmental exposure controls

Please see chapters 06. ACCIDENTAL RELEASE MEASURES and 07. HANDLING AND STORAGE. No further methods are required.

09. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Physical state: powder
Colour : white
Odour : odourless

Important health, safety and environmental information

Lower explosive limit :	- Vol%	Upper explosive limit :	- Vol%
Vapour pressure : (20 °C)	mbar	Vapour pressure : (50 °C)	mbar
Density : (20 °C)	about 2 g/cm ³	Bulk density : (20 °C)	g/cm ³
Viscosity: (20 °C)	mPa•s	pH value (20 °C)	4,5
Water solubility: (20 °C)	partly soluble g/l	Setting point: (1013 hPa)	°C
Boiling point / range : (1013 mbar)	°C	Solidification point:	°C
Melting point:	°C	Ignition temperature :	°C
Flash point :	°C		

Additional physical and chemical properties are not available.

10. STABILITY AND REACTIVITY**Conditions to avoid**

Thermal decomposition: Stable at ambient temperature °C

Materials to avoid

May evolve heat when mixed with acids

Hazardous decomposition products

Ammonia evolves at temp. higher than 250 C

11. TOXICOLOGICAL INFORMATION

no data available. The toxicological classification of the preparation was made according DIRECTIVE 1999/45/EC concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.

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Safety Data Sheet

YETI Dental GmbH

According to (EG) No. 1907/2006 (REACH)

Conclusion from test data

No data available

Conclusion from experience

No data available

Information on ingredients

LD50 (oral, mg/kg (IUCLID)
rat):
Eye of may cause irritation
Rabbit:

LD50 (inhal., mg/l/4h (IUCLID)
rat):
Skin of rabbit
(24 h):

12. ECOLOGICAL INFORMATION

Ecotoxicity

TOC value: -

CSB value: -

Acute bacterial
toxicity:

Acute toxicity
on fishes: -

Mobility

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Results of PBT assessment

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Disposal and six-digit waste code according 2000/532/EC

Mix liquid and investment powder and let the slurry harden.

Recommendation: Obey and follow local waste disposal regulations.

14. TRANSPORT INFORMATION

Transport by road / rail ADR/RID

Class :

Proper
shipping name:

UN
number:

Packing
Group: -

Transport by sea IMDG/GGVSee

IMDG
code :

Marine
Pollutant: -

UN
number :
EmS:

Proper
shipping name:
Packing Group: -

Transport by air ICAO-TI and IATA-DGR

Class :

Proper
shipping name:

UN
number :

Packing
Group: -

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Vorlage:

Yeti2/QM-neu/SDB/Yeti/01.08.08

15. REGULATORY INFORMATION**Label according to EC Directive****Symbols and indications of danger****Determinant ingredient for labelling**

contains: R phrases / S phrases

Other information

Hardens in contact with water.

EC RegulationsProduct contains silicium dioxide and may lead to silicosis at prolonged exposure. Exposure limit for silica is 0,15 mg/m³!**Safety assessment**

A safety assessment of ingredients of this preparation was not performed.

National regulations**Effects on the aquatic environment**

not hazardous according to VwVwS, Annex 4 (Germany)

16. OTHER INFORMATION**Included EC Directives / Regulations**

- DIRECTIVE 1999/45/EC concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.
- DIRECTIVE 2006/121/EC amending Council Directive 67/548/EEC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances in order to adapt it to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency.
- REACH regulation (EC) No. 1907/2006

Non-statutory recommendations by supplier

Only for professional, industrial use – not for public, non-professional use.

R phrases, which are mentioned in chapter 3References: <http://www.baua.de> <http://www.arbeitssicherheit.de>**Changes made since the last version**

Revised version according regulation (EC) No 1907/2006 (REACH)

Responsible departmentSafety Data Sheet, msds@feguramed.com

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any purpose other than that for which it was intended.

This does not in any way excuse the user from knowing all of the regulations covering his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

The aim of the mandatory regulations mentioned is to help the user to fulfill obligations regarding hazardous products. This information is not exhaustive. This does not exonerate the user from ensuring the existence of legal obligations, other than those mentioned, for which he is solely responsible.