

Safety Data Sheet

YETI Dentalprodukte GmbH

according to 1907/2006/EC, Article 131

Print date: 27.08.2019
GB page: 1 of 7

revised at: 27.08.2019

New: Version 03

replaced: Version 02 from 26.06.2015

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

- **1.1** Product identifier
Trade name: Expansion Liquid (Art.941-1000, 951-1000, 956-1000)
- **1.2** Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
Application of the substance / the mixture: Mixing liquid for investments.
- **1.3** Details of the supplier providing the safety data sheet
Manufacturer/Supplier:
YETI Dentalprodukte GmbH
Industriestr.3
D-78234 Engen / GERMANY
sdb@yeti-dental.com
+49 (0) 7733-9410-0
- Information on substance / preparation: Tel. 0 77 33 / 94 10 0 FAX 0 77 33 / 94 10 22
- Emergency information: Tel. 0 77 33 / 94 10 0 (Mo. - Thurs. 8h - 16h30, Fr. 8h - 14h)

SECTION 2: Potential hazards

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 Label elements

- Labelling according to Regulation (EC) No 1272/2008: Not applicable.
- Hazard pictograms: Not applicable.
- Signal word: Not applicable.
- Hazard statements: Not applicable.

2.3 Other hazards

- Results of PBT and vPvB assessment:
- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/Information on ingredients

3.2 Chemical characterization: Mixtures

- Description: Mixture of the following substances with non-hazardous admixtures.

CAS: 7631-86-9 Kieselsäuren, amorphe

30-60%

EINECS: 231-545-4 Substances for which a Community exposure limit value applies

Additional information: For the wording of the listed hazard phrases can be found in section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information: No special measures required.
- After inhalation:
Supply fresh air, consult doctor in case of complaints. No special measures required.

(Fortsetzung auf Seite 2)

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- After skin contact:
 - Wash with soap and water. If skin irritation occurs, seek medical attention.
- - After eye contact: Consult an ophthalmologist if symptoms occur or persist.
- - After ingestion: Rinse out mouth immediately and drink plenty of water.
- - **4.2** Most important symptoms and effects, both acute and delayed
 - No further relevant information available.
- - **4.3** Indication of any immediate medical attention and special treatment needed.
 - No further relevant information available.

SECTION 5: Fire fighting measures

5.1 Extinguishing media

- Suitable extinguishing media:
The product itself does not burn. Adapt fire extinguishing measures to the surroundings.
- Extinguishing media not suitable for safety reasons: No further relevant information available

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

- Special protective equipment: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

6.2 environmental precautions

Prevent area-wide expansion (e.g. by containment or oil booms). Transfer to another container for disposal.

6.3 Methods and material for containment and cleaning up

Place in suitable containers for recovery or disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders, sawdust).

6.4 Reference to other sections

No hazardous substances will be released. See Section 7 for information on safe handling.

For information on personal protective equipment see section 8. For information on disposal see section 13.

SECTION 7: Handling and storage

7.1 Protective measures for safe handling

The usual precautions for handling chemicals must be observed. No special measures required.

- Information about protection against fire and explosion: No special measures required.

7.2 Conditions for safe storage, including incompatibilities

- Storage

- Requirements to be met by storerooms and receptacles:

Store at temperatures between 5 - 35°C. Store in a closed dark container made of non-corrosive material. Protect from frost.

Keep container tightly closed.

Store container in a well-ventilated, dry place. Maximum storage temperature 50°C

Precautions when handling chemicals must be observed. No special measures required.

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- Lagerklass Protect from frost.
- - Information on storage in one common storage facility: No special measures are required.
- - Further information on storage conditions: None.
- - Storage class: No information available.
- - Classification according to Ordinance on Industrial Safety and Health (BetrSichV): No data available.
- - 7.3 Specific end uses: No further relevant information available.e:

SECTION 8: Exposure controls/personal protective equipment

- Additional information on the design of technical systems: No further data, see section 7.8.1

- Components with limit values that require monitoring at the workplace:

7631-86-9 Kieselsäuren, amorphe

AGW (Germany)	Long-term value: 4 E mg/m ³ DFG, 2, Y
MAK (Austria)	Long-term value: 4 E mg/m ³

- Additional notes: The lists valid at the time of preparation served as a basis.

- 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
Observe the usual precautions when handling chemicals.
- Respiratory protection:
Not required if room is well ventilated.
No special measures normally required if workplace exposure limit(s) (AGW) and other limits are safely maintained over time.
- Hand protection:
The glove material must be impermeable and resistant to the product. Due to lack of testing, no recommendation can be made on glove material for the product. Selection of glove material considering breakthrough times, permeation rates and degradation.
- Glove Material:
The selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. Since the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use
- Penetration time of the glove material:
The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.
- Eye protection: Safety goggles recommended during decanting.
- Body protection: Protective work clothing.

9.1 Information on basic physical and chemical properties.

- - General information:
- - Appearance:
- Form: Liquid
- Color: transparent
- Odor: Odorless
- pH value at 20 °C: 9-10

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- Change in state:	
Melting point/Freezing point:	Not determined.
Initial boiling point and boiling range:	100 °C
- Flash point:	Not applicable.
- Flammability (solid, gas):	Not applicable
- Ignition Temperature:	Not applicable.
- Decomposition temperature:	Not determined.
- Auto-ignition temperature:	The product is not self-igniting.
- Explosive properties:	The product is not explosive.
- Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
- Vapor pressure at 20 °C:	~23 hPa
- Density at 20 °C: 1.4 g/cm³.	
- Relative density:	Not determined.
- Vapor Density:	Not determined.
- Evaporation rate:	Not determined.
- Solubility in / Miscibility with Water:	Dispersible.
- Partition Coefficient: n-octanol/water:	Not determined.
- Viscosity:	
Dynamic at 20 °C:	20 mPas.
Kinematic:	Not determined.
- Solvent Content:	
	VOC (EU) 0.00 %
Solids content:	0.0 %
- 9.2 Other information No further relevant information available.	

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions of storage and transport of solids. No data available.

10.2 Chemical stability

No decomposition when used as directed.

Thermal decomposition / conditions to be avoided:

No decomposition if used as directed.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Frost.

Drying out of the solution. May cause dust formation.

10.5 Incompatible materials

Steel, aluminum, copper.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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ABSCHNITT 11: Toxikologische Angaben

- **11.1** Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.

• LD/LC50 values relevant to classification:

7631-86-9 Kieselsäuren, amorphe

Oral LD50 > 10000 mg/kg (Rat)

- Primary irritant effect:
- Skin corrosion/irritation Low irritant effect.
- Serious eye damage/irritation Low irritant effect.
- Respiratory/skin sensitization
- Based on available data, the classification criteria are not met.
- CMR effects (carcinogenic, mutagenic and toxic for reproduction):
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- Specific target organ toxicity (single exposure)
- Based on available data, the classification criteria are not met.
- Specific target organ toxicity in case of repeated exposure
- Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data. the classification criteria are not met.

SECTION 12: Environmental information

• 12.1 Toxizität

- Aquatic toxicity:

7631-86-9 Silica, amorphous

EC50/48 h 120 mg/l (Alga)

7600 mg/l (Water flea (Daphnia magna))

NOEC 60 mg/l (Alga)

and degradability No further relevant information available.

- **12.3** Bioaccumulative potential Bioaccumulation not expected

- **12.4** Mobility in soil No further relevant information available.

- Further ecological information:

- General information: Generally not hazardous to water

- **12.5** Results of PBT and vPvB assessment

- PBT: This mixture does not contain any ingredients considered to be persistent, bioaccumulative or toxic.

- vPvB:

This mixture does not contain any ingredients that can be considered very persistent or very bioaccumulative.

- **12.6** Other adverse effects No further relevant information available.

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SECTION 13: Notes on disposal

- 13.1 Waste treatment methods

- Recommendation: Smaller quantities can be landfilled together with household waste.

- Waste code number:

The waste code number according to the Waste Catalogue Ordinance (AVV) depends on the waste producer and can thus be different for a product. The waste code number must therefore be determined separately by each waste producer.

European Waste Catalogue:

The assignment of waste code numbers / waste designations is to be carried out in accordance with EAVK on an industry and process-specific basis.

- Uncleaned packaging:

- Recommendation:

Non-contaminated packaging can be recycled.

After cleaning, the packaging can be reused or recycled.

SECTION 14: Transport information

· 14.1 UN-Nummer

· ADR, IMDG, IATA

· ADN

Not applicable.

· 14.2 UN proper shipping name

· ADR, IMDG, IATA

Not applicable.

· 14.3 Transport hazard classes

· ADR, IMDG, IATA

· Klasse

Not applicable.

· ADN/R-Class

Not applicable.

· 14.4 Packing group

· ADR, IMDG, IATA

Not applicable.

· 14.5 environmental hazards

· Marine pollutant

No

· 14.6 Special precautions

for the user

Not applicable.

· 14.7 Carriage in bulk according to Annex II

of the MARPOL Convention and
according to the IBC Code

Not applicable

· UN "Model Regulation":

Not applicable.

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SECTION 15: Legislation

- 15.1 Safety, health and environmental regulations/specific legislation for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients are included.
- National regulations:
- Employment Restriction Information: Observe employment restrictions for young persons. Observe employment restrictions for expectant and nursing mothers.
- Hazardous Incident Ordinance:
The quantity thresholds according to the Hazardous Incident Ordinance must be **observed**. Major Accidents Ordinance, Annex: not mentioned.
- Water hazard class: Generally not hazardous to water.
- **15.2** Chemical safety assessment: A chemical safety assessment has not been carried out.

SECTION 16: Other information

The information is based on the current state of our knowledge, but it does not constitute a guarantee of product characteristics and does not establish a contractual legal relationship. The information may neither be changed or transferred to other products. Duplication in unchanged condition is permitted.

- Department issuing data sheet: Product Safety Department.
- 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 Harmonised 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)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative

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