



**Material Safety Data Sheet
according to decree (EC) No. 1907 / 2006**

Date of printing: 19.10.2018
Revision: 6
Revision Date: 07.11.2019

1. Chemical Product and Company Identification

Product name:

Light curing core varnish

Application of the product:

Light curing Varnish for dental technicians and dental practise

Manufacturer:

YETI Dentalprodukte GmbH

Street:

Industriestr.3

Zip-Code / Town

D-78234 Engen / Germany

e-mail

www.yeti-dental.com

www.dentalwax.com

Contact for technical information

Unit's +49 (0)7733-9410-14 technik@yeti-dental.com

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Emergency Information

Phone: +49 (0) 7733-9410-0

2. Hazard Identification

Potential Hazards:

Flam liq. 2	H225
Skin Irrit. 2	H315
Eye irrit. 2	H319
STOT SE 3	H335
Aquatic Chronic 2	H411

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Additional hazard advices for human and environment GHS labelling (H-phrases)

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H411	Toxic to aquatic life with long-lasting effects



Attention

H315 Causes skin irritation.

P264 Wash ... thoroughly after handling.

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 + P364 Take off contaminated clothing and wash it before reuse.

H319 Causes serious eye irritation

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing/spülen.

P337 + P313 If eye irritation persists: Get medical advice/attention.

H335 May cause respiratory irritation

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor/... if you feel unwell.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to ...



Danger

H225 Highly flammable liquid and vapour

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P233 Keep container tightly closed.
 P240 Ground and bond container and receiving equipment.
 P241 Use explosion-proof [electrical/ventilating/lighting/...] equipment.
 P242 Use non-sparking tools.
 P243 Take action to prevent static discharges.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P370 + P378 In case of fire: Use ... to extinguish.
 P403 + P235 Store in a well-ventilated place. Keep cool.



H411 Toxic to aquatic life with long-lasting effects

P273 Avoid release to the environment
 P391 Collect spillage.

3. Composition/Information on Ingredients

Chemical characterization:

Hazardous ingredients:

Material	Cas-No./EINECS-No./EG-No.	Content (%)	Marking
2-Propenoic acid	1384855-91-7 / - / 800-838-4	10 – 30 %	H317 Skin Sens. 1a; H319 Eye Irrit. 2; H412 Aquatic Chronic 3
2-Hydroxyethyl methacrylate	868-77-9 / 212-782-2 / 607-124-00-X	1 – 5 %	H315 Skin Irrit. 2; H317 Skin Sens.1; H319 Eye Irrit.2
Aliphatic urethane acrylate in pentaerythritol tri/tetracrylate		10 – 25 %	H302 Acute Tox. 4; H315 Skin Irrit. 2; H317 Skin Sens.1; H411 Aquatic Chronic 2
2-Hydroxy-2-methylpropiophenone	7043-98-5 / - / 231-272-0	0,5 – 3%	H302 Acute Tox. 4
2,2 Diethoxyacetophenone	6175-45-7 / - / 228-220-4	0,05 – 0,3 %	H319 Eye Irrit.2
Benzophenone	119-61-9 / 204-337-6	5 – 10 %	H373 STOT RE 2; H412 Aquatic Chronic 3
2,2-dimethoxy-1,2-diphenylethan-1-one	24650-42-8 / - / 246-386-6	0,05 – 0,5 %	H411 Aquatic Chronic 2

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Methyl methacrylate	80-62-6 / 201-297-1 / 607-035-00-6	20 – 40 %	H225 Flam. Liq. 2; H315 Skin Irrit. 2; H317 Skin Sens. 1; H335 STOT SE 3
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4. First-Aid-Measures

General Advices:

Take off with product contaminated clothes.

Contact a physician if symptoms are obviously showing influence of the product to skin, Eyes or through inhalation of vapour.

After skin contact:

Wash off skin with soap and water.

Contact a physician if the skin is irritated.

After eye contact:

Rinse eyes an efficient time.

Contact ophthalmologist if irritation is persisting.

After inhalation:

Take person to fresh air and rest in relaxed position.

Seek medical treatment.

After swallowing

Seek medical advice immediately.

5. Fire-Fighting-Measures

Suitable extinguishing agents:

Foam, Dry powder, carbon dioxide.

For safety reasons unsuitable extinguishing media:

Water with full jet.

Particular danger through the product itself, its combustion products or gases:

In the event of fire or thermal decomposition there is development of carbon monoxide and carbon dioxide.

Protective equipment for fire-fighters:

Use conventional measures to combat chemical fires, that means use self-contained breathing apparatus (isolating-unit).

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6. Accidental release measures

Personal precautions:

Arrange for fresh air.

Keep ignition sources away.

Environmental protection measures:

Do not drain unpolymerized varnish into canalization.

Methods for cleaning / absorption:

For removing of spots (unpolymerized varnish) it is possible to use a rag soaked with ethyl acetate or isopropanol.

Absorption of small quantities with sand, diatomaceous earth or saw dust.

Dispose according to directions.

Cured material which consist mainly of synthetic (acrylated oligomeres), handle as synthetic waste.

7. Handling and Storage

Handling:

The conventional precautions for works with chemicals are to be adhered.

Always keep the bottle tightly closed. Provide adequate room ventilation.

Information about fire- and explosion protection:

Keep away from sources of ignition, do not smoke.

Use only explosion protected devices.

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

Storage conditions:

Store material in a tightly closed container at a cool place and protected against light and sunlight.

8. Exposure Controls/Personal Protection

Limit values for the exposition at work station and / or biological limit values

Work station limit values (AGW) Germany

Methylmethacrylat CAS 80-62-6 MAK2000 210mg/m³ 50ml/m³

PNCE and DNCL-Values as to be possibly worked out in a preparation safety report do not exist.

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Personal protective equipment::

Pay attention of protection- and hygienic measures. Protection clothes must be stored separately. The usual precaution measures must be attended.

Breathing protection:	For smaller quantities (10ml bottles) not necessary
Eye protection:	Protection goggles
Hand protection:	Sensibilisation: Wearing of applicable protection gloves is recommended. (by experience of the past / literature) for example Ethiparat®-gloves for 5-10 minutes, application of No-touch-Technik, minimal-contact-techniques is recommended.
Body protection:	Wear business usual protection clothes.
Other protection measures:	none
Advices for hygienic at work station:	Comply business usual protection- and hygienic measures. Preventive skin protection. Wash hands and skin after finishing work.

9. Physical and chemical Properties

Appearance:

Form:	liquid
Colour:	natural or different colours
Odour/Flavour:	acrylates/methacrylates

Safety relevant data:

Flash point:	22°C
Solubility in water:	unsoluble in water
Density:	not applicable
pH-value:	not applicable

10. Stability and Reactivity

Conditions to avoid

Beware of heat, solar radiation and light impact to avoid early slow polymerization.

Substances to avoid

Radical former (product polymerises slowly at contact)

Hazardous decomposition products:

None, if used according to directions.

Further information:

After considerably exceedance of storage time and / or exceedance of storage temperature it is possible that the product starts polymerizing under low heat impact.

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11. Toxicological information

Acute Toxicity

At skin: irritation

At Eyes: irritation

Further Information:

By appropriate exposure, conventionally use and to our experiences and information the product causes no hazardous effects.

Further details:

Methacrylates may cause allergical reactions.

12. Ecological information

Fish toxicity: fish-toxisch

Water organism: not applicable

Bacteria toxicity: not applicable

Further detail to ecology:

Do not allow product to reach ground water, body of waters or sewage system!

Bioaccumulation potential:

No data available

Effect of the determination of the PTB- and vPvB-Report:

Endocrine disruption potential

If the material causes hormonal effects or prevents them is unknown to us.

13. Disposal considerations

Substance / Preparation

To dispose of accordingly with notice of the local regulations of authority.

Do not empty into drains.

Disposal key according to AVV regulation

16 03 05 (organic disposal, that contains hazardous substances)

Package

Packages that are not contaminated can be recycled.

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14. Transport information/rules

Land transport ADR/RID

Classification

Class: 3

UN-Number: 1247

Classification code: F1

Description of the good: light cure core varnish

Hazard cause: Methylmethacrylate

Packaging

Packaging group: 2

Hazard sheet: 2.1

Limited Quantities:

Maritime transport IMDG/GGVSea

Classification

IMDG-Code: -

UN-Number: 1247

EmS: F-E, S-D

Marine Pollutant:

Description of the good: light cure core varnish

Hazard cause: Methylmethacrylate

Packaging

Packaging group: 2

Hazard sheet: 2.1

Air transport ICAO-TI and IATA-DGR

Classification

Class: 3

UN-Number: 1247

Description of the good: light cure core varnish

Hazard cause: Methylmethacrylate

Packaging

Packaging group: 2

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15. Regulatory Information

Labelling according EU guidelines

Code letter and hazard description of the product:

GHS / 1272/2008 (GHS/CLP)



Skin Irrit. 2	H 315 Causes skin irritation
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STOT SE 3	H 335 May cause respiratory irritation
Flam liq.2	H 225 Highly flammable liquid and vapour
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Hazard decisive components for the labelling

contains: --

National Rules

Water hazard class

Water Hazard Class: 2 (Estimation on the basis of the ingredients)

16. Other information

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Further applicable EG Guidelines

Guideline for preparation (1999/45/EC), at last changed by the guideline 2006/8/EC.
Substance Guideline (67/548/EWG), at last changed by the guideline 2006/121 EC.
REACH-Guideline (EC) No. 1272/2008

Manufacturer's suggested application restriction:

Only for commercial dental use – no public product

H-phrases on which is referred in chapter 3

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H 319	Causes serious eye irritation
H 335	May cause respiratory irritation
H 373	May cause damage to organs through prolonged or repeated exposure
H 411	Toxic to aquatic life with long-lasting effects
H 412	Harmful to aquatic life with long-lasting effects



Attention

H315 Causes skin irritation.

P264 Wash ... thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water/...

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- P273 Avoid release to the environment
P391 Collect spillage.

Department issuing MSDS:
Laboratory 0049-7733-941020

Additional Information:

Origin: ¹ <http://www.baua.de>

² <http://www.arbeitssicherheit.de>

Some of the information presented and conclusions drawn herein are from sources other than direct test-data on the product itself.

The contents and format of this MSDS are in accordance with EEC Commission (EC) No. 1907 / 2006.

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Disclaimer of Liability

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge.

For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Legend

ADR	European Convention Int. Carriage of Dangerous Goods by Road
BimSchV	Ordinance on the Implementation of the Federal Immission Control Act
CAS	Chemical Abstracts Service
DIN	standard of the German Institute for Standardization
EC	Effective Concentration
EC	European Community
EN	European standard
IATA-DGR	International Air Transport Association-Dangerous Goods Regulations
IBC code	International code for the construction and equipment of ships Transportation of dangerous chemicals in bulk
ICAO-TI	International Civil Aviation Organization-Technical Instructions
IMDG Code	International Maritime Code for Dangerous Goods
ISO	Standard of International Standards Organization
IUCLID	International Uniform Chemical Information Database
LC	Lethal Concentration
LD	Lethal Doses
Log Kow	distribution coefficient between octanol and water
MARPOL	Maritime Pollution Convention. Convention for the prevention of ship-source
OECD	Organization for Economic Cooperation and Development
PBT	Persistent, biocumulative, toxic
RID	Regulation for the International Carriage of Dangerous Goods by Rail
TRGS	Technical Rules for Hazardous Substances
UN	United Nations (United Nations)
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative
VwVwS	Administrative regulation of substances hazardous to water
WGK	water hazard class



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Article – Annex:

520-1000
520-2000
520-3000