

EG – Safety Data Sheet

YETI Dentalprodukte GmbH

According to 1907/2006/EG, article 31

Lightcuring Spacers

1. Identification of the Substance/Preparation and of the Company

Article description: Die Spacers / varnishes (see Appendix)
Use: Sealing of dies and placeholder for fixing cement

Producer: YETI DENTALPRODUKTE GMBH
Industriestr. 3
78234 Engen
Germany

Information: Tel.: +49 - 7733 / 9410-0 Fax.: +49 - 7733 / 9410-22
Mo-Thu 8:00 – 16:30; Fr 8:00 – 15:00
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Emergency: Tel.: +49 - 7733 / 9410-0 Fax.: +49 - 7733 / 9410-22
Mo-Thu 8:00 – 16:30; Fr 8:00 – 15:00

2. Hazards Identifications



Warning

H 319 – Causes serious eye irritation

H 336 – May cause drowsiness or dizziness



Danger

H 225 - Highly flammable liquid and vapour

General:

P 102 - Keep out of reach of children.

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Prevention:

P 210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P 241 - Use explosion-proof electrical/ventilating/lighting/.../equipment.

P 262 - Do not get in eyes, on skin, or on clothing.

Response:

P 305 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:

P 402 - Store in a dry place.

P 403 - Store in a well-ventilated place.

P 405 - Store locked up.

P 410 - Protect from sunlight.

P 412 - Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal:

P 501 - Dispose of contents / container in accordance with local / regional / national / international regulations.

System of classification:

The classification complies with the actual EC-lists, but is completed by indications from technical literature and by indications of the company.

Further indications:

Nitrocellulose can be inflamed by flames, heat, agitation, shock, spark, static charge. Dry Nitrocellulose has explosive characteristics.

3. Composition / Information on Ingredients

<u>Description:</u>	<u>CAS-No.</u>	<u>EINECS-No.</u>	<u>Markings</u>	<u>EC-No.</u>	<u>%</u>
Methylmethacrylate	80-62-6	201-297-1	F,R11,R37 R38,R43		0-28
Trimethylacrylate	15625-89-5	239-701-3	Xi,R36/38, R43		0-0.5
Diethoxyacetophenone	6175-45-7	228-220-4	Xi, R36		0-0.4
Benzophenone	119-61-9	204-337-6	Xi,R36/38 R52/53		0-5
Hydroxycyclohexylketone	947-19-3		Xi,R36	213-426-9	0-5
2H-Benzotriazol-2-yl	2440-22-4		Xi,R43R53	219-470-5	0-0,9
Acrylic Oligomer			Xi,R36/38 R43		0-23
PPTTA			Xi,R36		0-9

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4. First-Aid Measures

General indications:

In any case of severe injury, severe diseases and trouble of consciousness don't transport the affected person, but call a doctor. Find out accident details and nature of influence including quantity and duration of influence. Never instill anything through the mouth of an unconscious person. Immediately remove clothes that came in contact with the product. Bring casualty / injured out of the danger zone.

Inhalation:

Provide fresh air, if necessary mouth to mouth resuscitation, warmth. If troubles continue, call a doctor. In case of unconsciousness bedding and transport in recovery position.

Skin contact:

Rinse off with water and soap. If irritation of skin continues, call on a doctor.

Eye contact:

Rinse the opened eye with plenty of water and consult ophthalmologist.

Ingestion:

Rinse off mouth with water and drink a lot. Don't try to puke it up and get immediately in contact with a doctor. Never instill anything through the mouth of an unconscious person.

5. Fire-Fighting Measures

Suitable extinguishing media:

Foam, CO₂ (carbon dioxide), fire extinguishing powder, fogging water. Fight bigger fires with fogging water or alcohol resistant foam.

Special danger caused by the products, its combustion products or emerging gases:

If heated or in case of fire can be released: vapours

The vapours of the product are heavier than air and diffuse on the ground. Combustion over bigger distances possible.

Special protection equipment:

Wear respiratory protection.

Further indications:

Container in danger has to be cooled with fogging water.

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6. Accidental Release Measures

Personal precautions:

Use personal protective equipment, keep person without protection away. Remove sources of heat and ignition. Ventilate area of leak or spill. Eliminate containers with leaks. Avoid contact with skin and eyes.

Protection equipment:

Gloves of PVC. Get confirmation of the producer of protective equipment that the chosen protection is sufficient.

Environmental precautions:

Don't empty into drains, sewerage, canalization, soil and waters. Thin with much water.

Methods for cleaning up:

Absorb with liquid soaking material (sand, diatomite, universal adsorbent).

Ensure good ventilation. Dispose of the absorbed product in marked and closable containers and according to local current regulations.

7. Handling and Storage

Handling:

Indications for a safe handling:

The normal protection measures for chemicals have to be respected.

Indications against fire and explosions:

Keep away from fire. Don't smoke. Take measures against static charge.

Storage:

Ensure good ventilation. Store dry and cool.

Respect storage conditions according to VbF.

Indications for clustering:

Don't store close to open fire, sparks or strong oxidants. Don't store together with oxidizing or self-igniting materials, or with highly flammable solids.

Further indications for storage conditions:

Keep container firmly closed. Store cool and dry in well-closed package.

Storage class:

Classification according to Ordinance on Industrial Safety and Health (BetrSichV): highly flammable.

8. Exposure Controls / Personal Protection Equipment

Engineering measures (prevention of worker exposure):

Exposure limits of ingredients

<u>CAS-No</u>	<u>Description</u>	<u>Value</u>	<u>Unit</u>			
141-78-6	Ethyl acetate	MAK	1500 mg/m ³	400 ml/m ³	Y; DFG	
67-63-0	Isopropyl	MAK	500 mg/m ³	200 ml/m ³	Y; DFG	

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Personal protection equipment :

General precautions for safety and hygiene:

Immediately take off contaminated and soaked clothes. Avoid inhalation of gases, vapours and aerosols. Avoid contact with skin or eyes. Do not smoke, eat or drink during work. Get confirmation of the producer of protective equipment that the chosen protection is sufficient.

Respiratory protection:

Wear respiratory protection when ventilation is not sufficient.

Hand protection:

Wear suitable protective gloves. The material of the gloves has to be impenetrable and resistant against the product. Respect the indications of the producer as to the permeability and breakthrough- time, as well as the special conditions at the working place (mechanical load, time of contact).

Material of gloves:

Gloves of PVC. The choice of a suitable glove depends not only on the material, but as well on other quality features, different from producer to producer. Since the product is a preparation of several materials, the resistance of the glove material is not predictable und therefore has to be verified before application.

Permeation time:

The exact time of permeation has to be requested from the producer of the protection gloves and has to be respected.

Eye protection:

Wear sealed safety goggles.

Body protection:

Wear protective working clothes.

9. Physical and Chemical Properties

Appearance:	liquid
Colour:	diverse, depending on colouring
Odour:	characteristic
<u>Safety relevant data:</u>	
Boiling point / range:	55°C
Ignition temperature:	315°C (DIN 51794)
Flash point:	-18°C
Danger of explosion:	Product can generate explosive vapour-gas mixture, risk of bursting in case of overheating.
Explosion limit:	lower 1.5 Vol. %; upper 13.0 Vol. %
Vapour pressure at 20°C:	247 hPa
Density:	not defined
Solubility in water:	partly mixable
Kinematic viscosity at 20°C:	20s (DIN 53211/4)
pH:	not applicable

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10. Stability and Reactivity:

Thermal decomposition / conditions to avoid:

No decomposition if used in accordance to instructions, intense heating

Substances to avoid:

None, if used in accordance to instructions.

Dangerous reactions:

Development of highly flammable gases and vapours

Dangerous decomposition products:

No dangerous decomposition products known.

11. Toxicological Information:

Acute toxicity:

LD50 oral 5045 mg / kg (rat) Isopropyl

LD50 oral 5620 mg / kg (rat) Ethyl acetate

Primary irritation:

On skin:

Degreasing effect, can lead to dermatitis.

At eyes:

Irritating

Sensitization:

Not known.

Further toxicological information:

Inhalation of concentrated vapours can lead to conditions similar to narcosis and headache, dizziness etc.

12. Ecological Information:

General indications:

Water hazard class 2 (self-rating)

Don't pour into ground water, water bodies or sewerage system undiluted or in bigger quantities.

13. Disposal Considerations:

Recommendation:

Don't dispose of together with domestic waste. Don't pour into canalization. The choice of the disposal procedure depends on the composition of the product at the time of disposal and on the local disposal possibilities.

Waste code number:

For this product no waste code number according to European Waste Catalogue (EWC) can be defined, since only the intended use by the consumer enables the classification. This

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Waste code number has to be defined in agreement with the disposal facility / producer / authority.

European Waste Catalogue:

08 01 11 paint and varnish waste, that contain organical solvents or other dangerous substances.

Uncleaned package:

Disposal according to official directives

Recommendation detergent:

Water, if necessary add detergent.

14. Transport Information:

Transport by land ADR/RID and GGVS/GGVE (international / domestic)

ADR/RID-GGVS/E class:	3
Classification code:	F1
Packing group:	II
UN-No.:	1247 / 3
Proper shipping name:	Methylmethacrylate
Tunnel restriction code:	(D/E)
Zulässige Nettomenge:	400 Kg

Transport by sea IMDG/GGVSea

IMDG/GGVSea-Class:	3
Packing group:	II
UN-No.:	1247 / 3
EMS-No.:	F-E, S-E
Proper Shipping Name:	Methylmethacrylate
Properties:	Flashpoint 20°C

Transportation by air ICAO-TI and IATA-DGR

ICAO/IATA-class:	3
Packing group:	II
UN/ID-No.:	1247 / 3
Proper Shipping Name:	Methylmethacrylate
Packing Inst.:	353
Max. Quantity f. passenger aircraft:	5L

15. Regulatory Information:

Specifications according to European Community guidelines:

The product is classified and marked according to European community guidelines and ordinates on Hazardous Substances (GefStoffV).

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Code letter and hazard information:

Labelling according to EU guidelines:

The product is classified and labeled in accordance with EC Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation:

National Regulations:

Classification according to Ordinance on Industrial Safety and Health (BetrSichV): highly flammable.

Water hazard class:

Water hazard class 2 (Self- assessment of the ingredients)



Warning

H 315 – Cause skin irritation

H 319 – Causes serious eye irritation

H 335 – May cause respiratory irritation

H 336 – May cause drowsiness or dizziness



Danger

H 225 - Highly flammable liquid and vapour

General:

P 102 - Keep out of reach of children.

Prevention:

P 210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P 241 - Use explosion-proof electrical/ventilating/lighting/.../equipment.

P 262 - Do not get in eyes, on skin, or on clothing.

P 273 - Avoid release to the environment.

Response:

P 305 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:

P 402 - Store in a dry place.

P 404 - Store in a closed container.

P 410 - Protect from sunlight.

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Disposal:

P 501 - Dispose of contents / container in accordance with local / regional / national / international regulations.

16. Other Information:

Full text of H / P phrases under 2 :

H 225 Highly flammable liquid and vapour

H 315 Cause skin irritation

H 319 Causes serious eye irritation

H 335 May cause respiratory irritation

H 336 May cause drowsiness or dizziness

The statements of this Safety Data Sheet correlate to our actual status of knowledge and comply with the national and European regulations. The other working conditions of the user are not subject to or control and knowledge. The product must not be used for any other purpose than indicated in Part 1 without written permission. The user is responsible for respecting all necessary legal regulations.

The safety data sheet serves as description of products in regard to necessary safety measures. The indications do not have the meaning of guaranties on properties and do not establish a contractual legal relationship.

Customs No: 29161400

Appendix article group: 520-1000
520-2000
520-3000