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 Email: sdb@yeti-dental.com
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

Achtung
H 319 –verursacht Augenreizung
H 336 –kann Schläfrigkeit und Benommenheit verursachen

Achtung
H 225 -Flüssigkeit und Dampf leicht entzündbar

Allgemeines:
P 102 -darf nicht in die Hände von Kindern gelangen

Prävention:
P 210 -von Hitze/Funken/offener Flamme/heißen Oberflächen fern halten. Nicht rauchen.
P 241 -explosion geschützt elektrische Betriebsmittel/Lüftung-Beleuchtung verwenden.
P 262 –nicht in die Augen, auf die Haut oder auf Kleidung gelangen lassen.

Reaktion:
P 305 –bei Kontakt mit den Augen, einige Minuten behutsam mit Wasser spülen

Lagerung:
P 402 -an einem trockenen Ort aufbewahren
P 403 -an einem gut belüfteten Ort aufbewahren
P 405 -unter Verschluss aufbewahren
P 410 –vor Sonnenbestrahlung schützen
P 412 -nicht Temperaturen von mehr als 50°C aussetzen

Entsorgung:
P 501 –Entsorgung des Inhalt/Behälter gemäß den örtlichen /regionalen /nationalen Internationalen Vorschriften

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

Bezeichnung:	CAS-Nr.	EINECS-Nr.	Kennzeichg.	EG-Nr.	Gew. %
Methylmethacrylat	80-62-6	201-297-1	F,R11,R37 R38,R43		0-28
Trimethylacrylat	15625-89-5	239-701-3	Xi,R36/38, R43		0-0,5
Diethoxyacetophenon	6175-45-7	228-220-4	Xi, R36		0-0,4
Benzophenon	119-61-9	204-337-6	Xi,R36/38 R52/53		0-5
Hydroxycyclohexylketon	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
Acryliertes Oligoamin			Xi,R36/38 R43		0-23
PPTTA			Xi,R36		0-9

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.

6. Accidental Release Measures

Personal precautions:
Use personal protective equipment, keep person without protection away. Remove sources heat and ignition. Ventilate area of leak or spill. Eliminate containers with leaks. Avoid conta 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

CAS-No	Description	Value	Unit		
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

Personal protection equipment :
General precautions for safety and hygiene:
Immediately take off contaminated and soaked clothes. Avoid inhalation of gases, vapours an 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
Safety relevant data:	
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

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:
LD_{50} oral 5045 mg / kg (rat) Isopropyl
LD_{50} 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 local disposal possibilities.
Waste code number:
For this product no waste code number according to European Waste Catalogue (EWC) can defined, since only the intended use by the consumer enables the classification. This Waste c 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 substan
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:	Methylmethacrylat
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:	Methylmethacrylat
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:	Methylmethacrylat
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).

Code letter and hazard information:
Kennzeichnung nach EWG-Richtlinien:
Das Produkt ist nach EG-Richtlinien/ GefStoffV eingestuft und gekennzeichnet.

Kennbuchstaben und Gefahrenbezeichnung:
Nationale Vorschriften:
Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV): leichtentzündlich
Wassergefährdungsklasse:
WGK 2 (Selbsteinstufung nach Abschätzung der Inhaltsstoffe)

Achtung
H 315 –verursacht Hautreizungen
H 319 –verursacht Augenreizung
H 335 –kann die Atemwege reizen
H 336 –kann Schläfrigkeit und Benommenheit verursachen

Achtung
H 225 -Flüssigkeit und Dampf leicht entzündbar

Allgemeines:
P 102 -darf nicht in die Hände von Kindern gelangen

Prävention:
P 210 -von Hitze/Funken/offener Flamme/heißen Oberflächen fern halten. Nicht rauchen.
P 241 -explosion geschützt elektrische Betriebsmittel/Lüftung-Beleuchtung verwenden.
P 262 –nicht in die Augen, auf die Haut oder auf Kleidung gelangen lassen.
P 273-Freisetzung in die Umwelt vermeiden

Reaktion:
P 305,351,338 –bei Kontakt mit den Augen, einige Minuten behutsam mit Wasser spülen

Lagerung:
P 402 -an einem trockenen Ort aufbewahren
P 404 –in einem geschlossenen Behälter aufbewahren
P 410 –vor Sonnenbestrahlung schützen

Entsorgung:
P 501 –Entsorgung des Inhalt/Behälter gemäß den örtlichen /regionalen /nationalen

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

Water hazard class:
Water hazard class 2 (self-rating according data content).

16. Other Information:

Wortlaut der H/P-Sätze unter 2:	
H 225	Leichtentzündlich
H 315	verursacht Hautreizungen
H 319	verursacht Augenreizungen
H 335	kann die Atemwege reizen
H 336	kann Schläfrigkeit und Benommenheit verursachen

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 mustn't 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 garanties on properties und do not establish a contractual legal relationship.
Customs No: 29161400

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