



Safety data sheet

according to Regulation (EC) No 1272/2008 (REACH-VO)

Name: Build-up- Resin 2 x 3g. (Art.890-1300)
Valid Form: 01.05.2015
Version: 2.2
Issued: 09.02.2024
replaces Version: 1.0 from 08.05.2012

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Section 1. Identification of the substance or mixture and of the company

1.1 Product identifier

Build-up Resin LC

1.2 Relevant identified uses of the substance/mixture

Light-curing, dental modeling gel

1.3 Details of the manufacturer/supplier providing the safety data sheet

YETI Dental Products GmbH

Industriestr.3

DE-78234 Engen

www.yeti-dental.com

www.dentalwax.com

info@yeti-dental.com

Tel. +49 (0)7733-9410-0

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Contact point for technical Information/application technology

Devices +49 (0)7733-9410-14 technik@yeti-dental.com

Dental technology +49 (0)7733-9410-20 labor@yeti-dental.com

1.4 Emergency number

Tel. +49 (0)7733-9410-0

Section 2. Potential Hazards

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

H315; Skin Irrit.2,

H317; Skin Sens.1,

H319; Eye Irrit.2,

H350; Carc. 1B



Safety data sheet

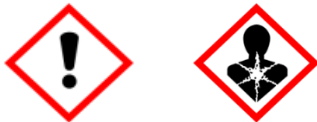
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2.2 Labeling elements according to Regulation (EC) No. 1272/2008

Pictogram(s) and signal word of the product



Signal word Danger

Hazard-determining component for labeling

Benzophenone, 1,6-hexanediol diacrylate

Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide (TPO)

Danger warnings:

H315 causes skin irritation

H317 can cause allergic reactions to your skin

H319 causes serious eye irritation

H350 May cause cancer

Safety instructions:

P201 Obtain special instructions before use

P280 Wear protective gloves/protective clothing/eye protection.

P302+P352 In case of contact with skin: Wash with plenty of soap and water

P305+351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove existing contact lenses. Continue rinsing

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P501 Contents/container in accordance with local regulations

Dispose of.

Special labeling of certain mixtures

Only for professional/commercial users (application by qualified personnel)

2.3 Other dangers

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

In the presence of radical formers (e.g. peroxides), reducing substances and/or Heavy metal ions can polymerize with the development of heat.



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Section 3. Composition/Information on Ingredients

3.1 Substances

This product is a mixture

3.2 Chemical characterization

Mixture of acrylic resins and initiators

Relevant components

CAS no.	Substance name	proportion
	EC-No. Index-No. REACH-No	
	Classification (Regulation (EC) No. 1272/2008	
	Acrylated oligoamine resin	10-30%
	Skin Irrit.2, Eye Irrit.2, H315, H319	
119-61-9	Benzophenon	1-<5%
	Carc.1B, STOT RE2, Aquatic Chronic 3; H350, H373; H412	
13048-33-4	1,6 Hexandioldiacrylat	< 10%
	235-921-9 607-109-00-8	
	Skin Irrit.2, Eye Irrit2, Skin Sens.1, Aquatic Acute1, Aquatic Chronic2 H315, H319, H317, H400, H411	
75980-60-8	Diphenyl (2,4,6-trimethylbenzoyl)phosphinoxid (TPO)	< 1%
	278-355-8 015-203-00-X	
	Repr.2, Skin Sens.1B, Aquatic Chronic2, H361f, H317, H411	

Text of H and EUH statements: see section 16.

Specific concentration limits, M-factors and ATE

CAS-No.	EC-No.	Substance name	proportion
		Specific concentration limits, M-factors and ATE	
119-61-9		Benhophenon	1 - <5%
		Dermal: LD50 = 3535 mg/kg. oral: LD50 = 2895 mg/kg	
13048-33-4	235-921-9	1,6-Hexandioldiacrylat	< 10%
		Dermal: LD50 = 3650 mg/kg. oral: LD50 = >5000 mg/kg	
75980-60-8	278-355-8	Diphenyl (2,4,6-trimethylbenzoyl)phosphinoxid (TPO)	<1%



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Section 4. First Aid Measures

4.1 Description of the first aid measure

Medical attention is required if symptoms appear to be due to exposure of the product to the skin, eyes or inhalation of vapors.

After inhalation

Provide fresh air. Medical treatment necessary

after skin contact

Wash off immediately with plenty of soap and water and change contaminated clothing. Doctor needed.

After eye contact

Rinse immediately with plenty of water with the eyelids open. Call in an ophthalmologist.

After swallowing

DO NOT induce vomiting. Do not attempt neutralization. Doctor needed.

4.2 Most important acute and delayed symptoms and effects

There is no information

4.3 Information about immediate medical attention or special treatment

Symptomatic treatment.

Section 5. Fire Fighting Measures

5.1 Extinguishing media

Suitable: water spray, foam (alcohol resistant), carbon dioxide, powder, spray mist.

Unsuitable: full water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, dangerous fumes/gases may be produced: carbon monoxide, carbon dioxide. The product's vapors are heavier than air and spread to the ground due to ignition greater distance possible.

5.3 Advice for firefighting

Staying in the area of danger only with respiratory protection device independent of circulating air.

Cool endangered containers with water spray from a safe distance.

Knock down any escaping vapors with water. Watch out for backfire!

Avoid penetration of extinguishing water into surface water, groundwater and soil.

Avoid skin contact by wearing suitable protective clothing and maintaining a safe distance.



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Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Ensure adequate ventilation. Do not breathe gas, smoke or vapors. Avoid contact with skin, eyes and clothes.

6.2 Environmental protection measures

Avoid penetration of product and large quantities of contaminated washing water into waterways and soil. Cover drains to prevent intrusion.

6.3 Methods and materials for containment and cleaning up

Isolate any spilled material with a neutralizing and non-combustible absorbent and collect it in the appropriate container for disposal in accordance with local regulations.

6.4 Reference to other sections

Observe protective measures under sections 7 and 8. Disposal see section 13

Section 7. Handling and Storage

7.1 Protective measures for safe handling

Do not leave containers open. Ensure good room ventilation. Keep ignition sources away.

Comply with minimum standards according to TRGS500. This includes general hygiene measures such as:

- Do not eat, drink or smoke in areas where work is taking place
- Wash hands and face thoroughly after use. Create a skin protection plan.
- Remove contaminated clothing/protective equipment before entering eating areas.

Information about fire and explosion protection

Vapors are heavier than air. Explosive vapor/air mixtures can occur from normal temperatures.

Keep away from oxidizing and oxidizing substances. Do not smoke.



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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers

Recommended storage temperature: Room temperature between 4°C -25°C.

Can polymerize with the development of strong heat.

Storage together with the following substances is prohibited.

- Medicines, food and feed
- Self-igniting substances
- Substances that form flammable gases with water
- Organic peroxides

Requirements for storage rooms and containers

Store in a well-ventilated, dry and cool place. No direct light/sunlight.

Section 8. Exposure Controls/Personal Protective Equipment

8.1 Parameters to be monitored

DNEL/DMEL values

CAS no. Description Exposure value Effect value

75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide(TPO)

Employee DNEL, long-term	dermal	systemic	0.233 mg/kg body weight/d
Consumer DNEL, long-term	inhalation	systemically	0.145 mg/m ³
Consumer DNEL, long-term	oral	systemic	0.0833 mg/kg body weight/d

PNEC values

CAS no. Description Value

75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide(TPO)

Sea water	0.00014 mg./l
Freshwater sediment	0.115 mg/kg
Marine sediment	0.0115 mg/kg
Soil	0.0222 mg/kg



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8.2 Exposure controls and monitoring

Technical measures and the use of suitable work procedures take priority over the use of personal protective equipment. Ensure good ventilation. This can be achieved by local exhaust ventilation or general exhaust ventilation.

Suitable assessment methods to check the effectiveness of the protective measures taken. Measures include metrological and non-measurable determination methods as described in the Technical Rules for Hazardous Substances (TRGS) 402.

Personal protective equipment

Personal protective equipment must be selected specifically for the workplace depending on the concentration and quantity of hazardous substances.

Standard occupational protective clothing is sufficient.

Respiratory protection

Not required

Hand protection

Protective gloves should be changed regularly, especially during intensive contact with the product. A suitable type of glove must be selected for each workplace

Eye protection

Use safety glasses (tight fitting).

Limiting and monitoring environmental exposure

See Sections 6 and 7



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Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: gel

Colour blue

Odor: characteristic

Security-relevant data

Parameter Value Method Comment

Vapor pressure (20°C) n.a.

Flammability (solid/gaseous) n.a

Solids content n.a.

Flash point (°C) >150°C

Odor threshold n.a.

Solubility in water (20°C) n.a.

Lower explosion limit n.a.

Upper explosion limit n.a.

Oxidizing properties N/A

pH value (20°C) n.a.

Vapor density (20°C) n.a.

Relative density (24°C) n.a.

Boiling start/range (°C) n.a.

Melting point/freezing point (°C) n.a.

Self-decomposition temperature N/A

Evaporation rate n.a.

Partition coefficient n-octanol n.a.

Viscosity, flow time (20°C) n.a.

Viscosity, dynamic. (mPas/20°C) 250*1000 mPa.s Decomposition temperature (°C) n.a.

Ignition temperature n.a.

n.b. = not determined n.a. = not applicable



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9.2 Other information:

Solid: not applicable

Gas: not applicable

The product has not been tested. The statement is about the properties of the Individual components derived.

Section 10. Stability and Reactivity

10.1 Reactivity

No decomposition if handled and stored as intended. Avoid excessive heating.

10.2 Chemical stability

The product is chemically stable under normal ambient conditions (room temperature).

10.3 Possible dangerous reactions

In the presence of radical formers (e.g. peroxides), reducing substances and/or Heavy metal ions can polymerize with the development of heat.

10.4 Conditions to avoid

To avoid premature polymerization, protect from heat, sunlight and Protect from exposure to light. Store in the original container between 4°C - 25°C

10.5 Incompatible materials

Oxidizing agents, reducing agents, heavy metals, acids, alkalis (lyes)

10.6 Hazardous decomposition products

None when used as intended

10.7 Thermal decomposition

None, if used as intended

Section 11. Toxicological information

acute toxicity

Based on the available data, the classification criteria are not met.



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ATEmix calculated

ATE (oral) >2000 mg/kg; ATE (dermal) >2000 mg/kg; ATE (inhalative vapor) >20mg/l; ATE (inhalative dust/mist) >5mg/l

CAS no.	Route of exposure	Dose	Species	Source	Method
119-61-9	Benzopenone				
	oral LD50	2895mg/kg	mouse		
	dermal LD50	3535mg/kg	rabbit		
13048-33-4	1,6-hexanediol diacrylate				
	oral LD50	>5000mg/kg	rat	OECD 401	
	dermal LD50	3650mg/kg	rabbit	OECD 402	
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)				
	oral LD50	>5000mg/kg	rat	ECHA	OECD 401
	dermal LD50	>2000mg/kg	rat	ECHA	

Irritating and corrosive effects

Causes skin irritation. Causes serious eye irritation

Sensitizing effects

May cause allergic skin reactions. (1,6-hexanediol diacrylate), (Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO))
Sensitization is possible in people who are predisposed to it.

Carcinogenic, mutagenic and reproductive toxic effects

May cause cancer (benzophenone)

Germ cell mutagenicity: 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 after single exposure

Based on the available data, the classification criteria are not met.

Specific target organ toxicity after repeated exposure

Based on the available data, the classification criteria are not met.

Danger of aspiration

Based on the available data, the classification criteria are not met.

11.2 Further information about other dangers

The product has not been tested. The statement is about the properties of the individual components derived.



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Section 12. Environmental Information

12.1 Toxicity

CAS-no.	Name	Dose	[h][d]	Species	Source	Method
119-61-9	Benzophenone					
	Acute fish toxicity	LC50 15.3mg/l	96h	fish		
	Acute algae toxicity	ErC50 3.5mg/l	72h	algae		
	Acute crustaceatox.	EC50 6.784mg	48h	daphnia		

75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)

Acute fish toxicity	LC50 1.4mg/l	96h	carp	ECHA	OECD 203
Acute algae toxicity	ErC50>2.01mg	72h	water flea	ECHA	OECD 201
Acute crustaceatox.	EC50 3.53mg	48h	water flea	ECHA	OECD 202
Acute bacterial toxicity.	EC50>1000mg	3h	activated Sludge	ECHA	OECD 209

12.2 Persistence and Degradability

The product has not been tested

CAS no.	Method	value	d	source
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Evaluation

75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)

OECD 301f 0-10% 28

Not easily biodegradable (according to OECD criteria)

12.3 Bioaccumulative potential

The product has not been tested

BCF

CAS no.	Name	BCF	Species	Source
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)	47-55		

12.4 Mobility in the ground

The product has not been tested.

12.5 Result of the PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH Annex XIII

The product has not been tested



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12.6 Endocrine disrupting properties

The product does not contain any substance that has endocrine properties against non-target organisms

because no ingredient meets the criteria.

12.7 Other Adverse Effects

There is no information

More information

Do not discharge product into the environment. Not in sewers or bodies of water

Section 13. Disposal Considerations

13.1 Waste treatment methods

Smaller quantities can be cured with light and disposed of with household waste. Larger quantities must be disposed of as hazardous waste in accordance with state regulations. Do not discharge into drains or rivers. Dispose of in accordance with regulations.

Recommendation: Discuss the exact waste code with the waste disposal company.

Waste code according to the Waste List Ordinance (AVV)

070208 waste from organic chemical processes; Waste from HZVA of plastics, synthetic rubber and synthetic fibers; other reaction and distillation residues;

Classified as hazardous waste.

Packaging contaminated packaging 070208 should be treated as the product

Section 14. Transportation Information

Land transport (ADR/RID) other relevant information on land transport

-Not hazardous according to these transportation regulations

Inland waterway transport (ADN) other relevant information on inland waterway transport

-Not hazardous according to these transportation regulations

Sea transport (IMDG) other relevant information on sea transport

-Not hazardous according to these transportation regulations

Air transport (ICAO-TI/IATA-DGR) other relevant information on air transport

-Not hazardous according to these transportation regulations

14.6 Special precautions for the user

There is no information

14.7 Bulk carriage by sea in accordance with IMO instruments

Not applicable



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Section 15. Legislation

15.1 Safety, health and environmental regulations/legislation specific to the substance or mixture

EU regulations

Approvals (REACH, Annex XIV)

Substances of very high concern, SVHC (REACH, Article 59)

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)

Restrictions on use (REACH, Annex XVII) entry 3, entry 28, entry 75

National regulations: Water hazard class 1-slightly hazardous to water

Status: Mixing rule according to VwVwS Annex 4, No.3

15.2 Chemical safety assessment

The substance/mixture has not been subjected to a safety assessment.

Section 16. Other Information

Changes: This data sheet contains changes from the previous version

Reason for revision: Changed classification

Reason for revision: Regulation (EU) No. 2020/878, Annex II

Abbreviations and acronyms

Skin Irrit Skin irritation

Eye Irrit Eye irritation

Skin Sens Skin sensitization

Carc carcinogenicity

Repr. reproductive toxicity

STOT RE Specific target organ toxicity (repeated exposure)

Aquatic Acute Acutely hazardous to the aquatic environment

Aquatic Chronic Chronic aquatic hazard

ADR European Agreement for the International Transport of Dangerous Goods by Road

BImSchV regulation for the implementation of the Federal Immission Control Act

CAS Chemical Abstracts Service



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DIN standard from 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
Transport of hazardous 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 partition coefficient between octanol and water
MARPOL Maritime Pollution Convention = Convention for the Prevention of Pollution from Ships
OECD Organization for Economic Cooperation and Development
PBT Persistent, bioaccumulative, toxic
RID regulations for the international carriage of dangerous substances by rail
TRGS Technical Rules for Hazardous Substances
UN United Nations
VOC Volatile Organic Compounds
vPvB very persistent and highly bioaccumulative
VwVwS administrative regulations for water-polluting substances
WGK water hazard class

Classification of mixtures and evaluation method used according to regulation
(EC)No.1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit.2; H315	Calculation method
Eye Irrit.2; H319	Calculation method
Skin Sens.1; H317	Calculation method
Carc.1B; H350	Calculation method



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H315 Causes skin irritation.

H317 can cause allergic reactions to your skin.

H319 causes serious eye irritation.

H350 can cause cancer

H361f Suspected of damaging fertility or the unborn child.

H373 can cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic organisms

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

The information in this safety data sheet corresponds to our current state of knowledge and complies with national and EC legislation. The user's stated working conditions are beyond our knowledge and control. The product may not be used for any purpose other than that specified in Section 1 without written permission. This also includes any changes to the product. The user is responsible for compliance with all necessary legal regulations.

The information in this safety data sheet describes the safety requirements of our product, but does not represent a guarantee of product properties and does not constitute a contractual legal relationship

(the data of the relevant components were taken from the most recent safety data sheet of the upstream supplier)