



# 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: 2.0  
Issued: 15.04.2015  
replaces Version: 1.0 from 08.05.2012

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Build-up-resin LC

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

light curing dental resin

### 1.3 Details of the supplier of the safety data sheet

YETI Dentalprodukte GmbH, Industriestr.3, DE-78234 Engen

[www.yeti-dental.com](http://www.yeti-dental.com), [www.dentalwax.com](http://www.dentalwax.com), [info@yeti-dental.com](mailto:info@yeti-dental.com)

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Responsible Department

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

### 1.4. Emergency telephone number: +49 (0)7733-9410-0

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: Xi - Irritant

R phrases:

May cause sensitization by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory/skin sensitization: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

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## 2.2 Label elements (EC) Nr.1272/2008

### Hazardous components which must be listed on the label

hexamethylene diacrylate  
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide



**Signal word:** Warning / GHS07

### Hazard statements

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection.  
P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.  
P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with local regulation.

## 2.3 Other hazards

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g.peroxides), reducing substances, and/or heavy metal ions.



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## 3. Composition/information on ingredients

### 3.2 Mixtures

EC No	Chemical name	Quantity
	CAS No	Classification according to Directive 67/548/EEC
	Index No	Classification according to Regulation (EC) No. 1272/2008 (CLP)
	<b>Acrylic resin</b>	> 60 %
	R53;Aquatic Chronic 4; H413	
	<b>Oligoamine resin</b>	10 - 30 %
	Xi - Irritant R36/38; Skin Irrit. 2; Eye Irrit. 2; H315 H319	
	<b>Benzophenone</b>	1 - < 5 %
	119-61-9 Xn - Harmful, N - Dangerous for the environment R48/22-51-53	
	STOT RE 2, Aquatic Chronic 2; H373 H411	
	<b>Hexamethylene diacrylate</b> 235-921-9	< 10 %
	13048-33-4 Xi - Irritant R36/38-43	
	607-109-00-8 Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317	
	<b>Diphenyl (2,4,6-trimethylbenzoyl)phosphine oxide</b> 278-355	< 1 %
	75980-60-8 Repr. Cat. 3, N - Dangerous for the environment R62-43-51-53	
	015-203-00-X Repr. 2, Skin Sens. 1, Aquatic Chronic 2; H361 H317 H411	
	Full text of R-, H- and EUH-phrases: see section 16	

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## 4. First aid measures

### 4.1 Description of first aid measures

#### General information

Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours. Take off all contaminated clothing immediately.

#### After inhalation

Provide fresh air. Medical treatment necessary.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

#### After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Medical treatment necessary.



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## 4.2 Most important symptoms and effects, both acute and delayed

No information available.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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## 5. Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Foam. Extinguishing powder Carbon dioxide

**Unsuitable extinguishing media:** Full water jet

### 5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide Hazardous decomposition

### 5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.



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## 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal .

## 6.4 Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

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## 7. Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Provide good room ventilation.

#### Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C.

Can polymerize with intense heat release.

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#### Advice on storage compatibility

No special measures are necessary.



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## 8. Exposure controls/personal protection

### 8.1 Control parameters

No information available.

### 8.2. Exposure controls

#### **Protective and hygiene measures**

Avoid contact with skin, eyes and clothes. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### **Eye/face protection**

tightly fitting goggles

#### **Hand protection**

Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

#### **Skin protection**

Wear suitable protective clothing.



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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state: Gel  
Colour: blue  
Odour: characteristic

#### Safety relevant facts

pH-Value: not determined

**Changes in the physical state**

Melting point: not determined  
Initial boiling point and boiling range: not determined  
Flash point: > 150 °C

**Flammability**

Solid: not applicable  
Gas: not applicable  
Lower explosion limits: not determined  
Upper explosion limits: not determined

**Auto-ignition temperature**

Solid: not applicable  
Gas: not applicable  
Decomposition temperature: not determined  
Vapour pressure: not determined  
Density: not determined  
Water solubility: insoluble

**Solubility in other solvents**

The substance is not soluble in water.  
Partition coefficient: not determined  
Viscosity / dynamic:(at 20 °C) 250 \* 1000 mPa·s  
Vapour density: not determined  
Evaporation rate: not determined



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## 9.2 Other information

Solid content: not determined  
Product has not been tested. The statement is derived from the properties of the components.

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## 10. Stabilität und Reaktivität

### 10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g.peroxides), reducing substances, and/or heavy metal ions.

### 10.4 Conditions to avoid

Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C. Can polymerize with intense heat release.

### 10.5 Incompatible materials

Oxidising agent, Reducing agent, Heavy metals, acids, Alkali (lye)

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.

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## 11. Toxicological information

### 11.1. information on toxicological effects

#### Acute toxicity

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

#### Benzophenone 119-61-9

oral LD50 2895 mg/kg Mouse

dermal LD50 3535 mg/kg Rabbit

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

oral LD50 > 5000 mg/kg Rat RTECS

**Irritation and corrosivity** Causes skin irritation. Causes serious eye irritation.





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## Sensitising effects

May cause an allergic skin reaction. (hexamethylene diacrylate),  
(Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide)  
Possible sensitization in case of persons suffering from hypersensitivity.

## STOT-single exposure

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

## Severe effects after repeated or prolonged exposure

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

## Carcinogenic/mutagenic/toxic effects for reproduction

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

## Aspiration hazard

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

## Further information

Product has not been tested. The statement is derived from the properties of the components.

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## 12. Ecological information

### 12.1 Toxicity

#### **Benzophenone** 119-61-9

Acute fish toxicity LC50 15,3 mg/l 96 h fish

Acute algae toxicity ErC50 3,5 mg/l 72 h algae

Acute crustacea toxicity EC50 6,784 mg/l 48 h daphnia

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

Acute crustacea toxicity EC50 3,53 mg/l 48 h Daphnia

### 12.2 Persistence and degradability

The product has not been tested.

### 12.3 Bioaccumulative potential

The product has not been tested.

### 12.4 Mobility in soil

The product has not been tested.



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## 12.5 Results of PBT and vPvB assessment

The product has not been tested.

## 12.6 Other adverse effects

No information available.

### Further Information

Do not allow uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains.

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## 13. Disposal considerations

### 13.1 Waste treatment methods

#### Advice on disposal

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities. Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Waste disposal number of waste from residues/unused products

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues

Classified as hazardous waste.

#### Waste disposal number of contaminated packaging

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues

Classified as hazardous waste.

#### Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

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## 14. Transport information

14.1 UN-Nummer UN1247/3

14.2 Land transport (ADR/RID)  
Other applicable information

No dangerous good in sense of these transport regulations.



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### **Inland waterways transport (ADN)**

#### **Other applicable information (inland waterways transport)**

No dangerous good in sense of these transport regulations.

### **Marine transport (IMDG)**

#### **Other applicable information (marine transport)**

No dangerous good in sense of these transport regulations.

### **Air transport (ICAO)**

#### **Other applicable information (air transport)**

No dangerous good in sense of these transport regulations.

### **14.6 Special precautions for user**

No information available.

### **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

not applicable

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## **15. Regulatory information**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

### **15.2 Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.



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## 16. Other information

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(EU Agreement concerning the International Carriage of Dangerous Goods by Road )  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized 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  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

### Internet

<sup>1</sup><http://www.baua.de>  
<sup>2</sup><http://publikationen.dguv.de>  
<sup>2</sup><http://www.arbeitssicherheit.de>  
<sup>3</sup><http://gestis.itrust.de>  
<sup>4</sup><http://logkow.cristi.nrc.ca>  
<sup>5</sup><http://www.gischem.de>  
<sup>6</sup><http://echa.europa.eu/en/candidate-list-table>

### Relevant H- and EUH-phrases (Number and full text)

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.  
H413 May cause long lasting harmful effects to aquatic life.



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### Relevant R-phrases (Number and full text)

R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R51	Toxic to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.
R62	possible risk of impaired fertility.

### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



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## Legend

ADR	European Agreement on the international carriage of dangerous goods
AwSV	Ordinance on Installations for the Handling of Substances Hazardous to Water
BImSchV	Ordinance for Implementation of the Federal Immission Control Act
CAS	Chemical Abstracts Service
DIN	Standard of the German Institute for Standardization
EC	Effective Concentration
EG	European Community
EEC	European Economic Community
EN	European Standard
IATA-DGR	International Air Transport Association-Dangerous Goods Regulations
IBC-Code	International Code for the Construction and Equipment of Ships carrying 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 Dose
Log Kow	Octanol-water partitioning coefficient
MARPOL	Maritime Pollution Convention=International Convention for the Prevention of Pollution from Ships
OECD	Organization for Economic Cooperation and Development
PBT	Persistent, bioaccumulative, toxic
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TRGS	Technical Rules for Hazardous Substances
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bio accumulative
VwVwS	German Administrative Regulation on Substances Hazardous to Water
WGK	Water hazard class

