

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 08.10.2020

# Temporary CB A2, A3, C2, B1

**SECTION 1: Identification** 

1.1 Product identifier

Trade name Temporary CB A2 Temporary CB A3 Temporary CB C2 Temporary CB B1

# 1.2 Recommended use of the chemical and restrictions on use

Recommended use of the chemical and restrictions on use Resin for 3D printing of crown and bridge restorations

Restrictions on use No data available.

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

## Address

BEGO Bremer Goldschlägerei Wilh. Herbst GmbH & Co. KG Wilhelm-Herbst-Str. 1 28359 Bremen

 Telephone no.
 +49/421/2028 - 0

 Fax no.
 +49/421/2028 - 115

 e-mail
 msds@bego.com

Supplier Formlabs, Inc. 35 Medford St Suite 201 Somerville, MA 02143

+1 617-855-0762

# 1.4 Emergency phone number

CHEMTREC 1-800-424-9300 (24/7)

# SECTION 2: Hazard(s) identification

## 2.1 Classification of the chemical

# **GHS Classification**

Eye Irritation - Category 2A Reproductive Toxicity - Category 1B Skin Corrosion / Irritation - Category 2 Skin sensitization - Category 1 Skin sensitization - Category 1B Specific Target Organ Toxicity - Single Exposure - respiratory tract irritation - Category 3

## 2.2 Label elements

Pictogram(s) Signal word



Danger Hazard Statement(s) Health hazards

**Precautionary Statement(s)** Prevention Causes skin irritation May cause an allergic skin reaction Causes serious eye irritation May cause respiratory irritation May damage fertility or the unborn child.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray.

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	Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.
	Contaminated work clothing must not be allowed out of the workplace. Wear personal protective equipment/face protection.
Response	If on skin: Wash with plenty of water and soap.
	If inhaled: Remove person to fresh air and keep comfortable for breathing.
	If in eyes: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	If exposed or concerned: Get medical advice/attention.
	Call a poison center/doctor if you feel unwell.
	Specific treatment (see first aid instruction on this label).
	If skin irritation occurs: Get medical advice/attention.
	Take off contaminated clothing and wash it before reuse.
	Wash contaminated clothing before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed.
eterage	Store locked up.
Disposal	Dispose of contents/container to a facility in accordance with local and nationa regulations.

# 2.3 Labelling information

No data available

# 2.4 Hazards not otherwise classified (HNOC)

No data available

# **SECTION 3:** Composition / information on ingredients

## 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

### Hazardous ingredients

No	Substance name					
	CAS no.	Coi	ncentrati	on		%
1	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid					
	41637-38-1	>=	50.00	- <	70.00	%-b.w.
2	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide					
	75980-60-8	<	2.50			%-b.w.

### 3.3 Other information

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of 29 CFR 1910.1200

### SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

### **General information**

In case of allergic symptoms, especially respiratory tract related, seek medical help immediately. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. In case of persisting adverse effects, consult a physician.

### After skin contact

In case of contact with skin wash off immediately with plenty of water. Consult a doctor if skin irritation persists.

### After eye contact

Remove contact lens. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

### After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Take medical treatment.

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

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No data available.

**4.3** Indication of any immediate medical attention and special treatment needed No data available.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

### Suitable extinguishing media Carbon dioxide; Extinguishing powder; Water spray jet; Alcohol-resistant foam

Unsuitable extinguishing media Full water jet

### 5.2 Specific hazards arising from the chemical

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); Phosphorus oxides

## 5.3 Special protective equipment and precautions for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing.

### SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away from ignition sources. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Methods and materials for containment and cleaning up

Take up with absorbent material (e.g., sand, diatomaceous earth, universal binder). When collected, handle material as described under the section heading "Disposal considerations".

### SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

## Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Risks inherent to handling the product must be minimised by applying appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

### General protective and hygiene measures

Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Keep away from food, drink and animal feeding stuffs. Avoid contact with eyes and skin. Provide eye wash fountain in work area.

### Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

### Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original.

### Incompatible products

Do not store together with: Oxidizing agents

## **SECTION 8: Exposure controls / personal protection**

### 8.1 Control parameters

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### 8.2 Exposure controls

### Appropriate engineering controls

Provide good ventilation of working area (local exhaust ventilation if necessary).

## Individual protection measures, such as personal protective equipment

### **Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

### Eye / face protection

Safety glasses with side protection shield

### Hand protection

Sufficient protection is given wearing suitable protective gloves in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

## Other protection measures

Chemical-resistant work clothes.

# **SECTION 9: Physical and chemical properties**

Form/Color			
liquid			
Various, depending on coloration			
Odor			
No data available			
Odor threshold			
No data available			
pH value			
No data available			
Boiling point / boiling range			
Value	1	50	٦°
Melting point / melting range			
No data available			
Decomposition point / decomposition range			
No data available			
Flash point			
Value	1	10	<b>0</b> °
Auto-ignition temperature			
No data available			
Oxidising properties			
No data available			
Explosive properties			
No data available			
Flammability (solid, gas)			
No data available			
Lower flammability or explosive limits			
No data available			
Upper flammability or explosive limits			

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No data available					
Vapor pressure					
No data available					
Vapor density					
No data available					
Evaporation rate					
No data available					
Relative density					
No data available					
Density					
Value	1.4	- 1.5	g/cm³		
Reference temperature		20	°C		
Solubility in water					
No data available					
Solubility(ies)					
No data available					
Partition coefficient: n-octanol/water					
No Substance name		CAS no.		EC no.	
1 diphenyl(2,4,6-trimethylbenzoyl)phosph		75980-60-8			
with reference to	pH: 6.4				
Viscosity					
No data available					
Other information					
Other information					
No data available.					

### 10.1 Reactivity

No data available.

## **10.2 Chemical stability** Stable under recommended storage and handling conditions(See section 7).

### **10.3 Possibility of hazardous reactions** None, when used as directed.

# **10.4** Conditions to avoid Heat, open flames and other sources of ignition.

- **10.5** Incompatible materials strong oxidizing agents
- **10.6 Hazardous decomposition products** No hazardous decomposition products known. In case of fire: see section 5.

# **SECTION 11: Toxicological information**

## Information on toxicological effects

# Acute oral toxicity

No data available

# Acute dermal toxicity

No data available

## Acute inhalational toxicity

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# Skin corrosion/irritation No data available

No data available				
Serious eye damage/irritation				
No data available				
Respiratory or skin sensitization				
No Substance name		CAS no.		
1 diphenyl(2,4,6-trimethylbenzoyl)phosph	ine oxide	75980-60-8		
Route of exposure	Skin			
Species	mouse			
Method	OECD 429			
Source	ECHA			
Evaluation	sensitizing			
Germ cell mutagenicity				
No data available				
Reproduction toxicity				
No Substance name		CAS no.		
1 diphenyl(2,4,6-trimethylbenzoyl)phosph	ine oxide	75980-60-8		
Route of exposure	oral			
Evaluation/classification	May damage	fertility.		
Method	OECD 421			
Source	ECHA			
Species	rats (male/fe	male)		
Carcinogenicity				
No data available				
NTP Report on Carcinogens (RoC)				
According to the data available and/or specification				
any substance(s) listed "known" (to be a human	ı carcinogen) or	"RAHC" (reasona	ably anticipated to b	be a human
carcinogen).				
OSHA Standards listing cancer as a health e				· · ·
According to the data available and/or specificat	tions supplied b	y upstream suppli	iers, this product do	pes not contain
any substance(s) listed as carcinogenic.				
ARC Monographs on the Evaluation of Carc				
The product contains following substance(s) cla	ssified by the l		C	
No Substance name		CAS no.	Group	
1 diiron trioxide		1309-37-1	3	
2 titanium dioxide		13463-67-7	2B	
STOT - single exposure				
No data available				
STOT - repeated exposure				
No data available				
Aspiration hazard				
No data available				

# SECTION 12: Ecological information

# 12.1 Toxicity

Тох	Toxicity to fish (acute)				
No	Substance name	CAS no.			
1	diphenyl(2,4,6-trimethylbenzoyl)phosphir	e oxide 75980-60-8			
LC5	0	1.4 mg/l			
Dura	ation of exposure	96 h			

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Species	Cyprinus carpio				
Method	OECD 203				
Source	ECHA				
Toxicity to fish (chronic)					
No data available					
No data avallable					
Toxicity to Daphnia (acute)	Toxicity to Daphnia (acute)				
No data available					
Toxicity to Daphnia (chronic)	Toxicity to Daphnia (chronic)				
No data available					
Toxicity to algae (acute)					
No data available					
Toxicity to algae (chronic)	Toxicity to algae (chronic)				
No data available					

# 12.2 Persistence and degradability

Biod	Biodegradability				
No	Substance name	CAS no.			
1	diphenyl(2,4,6-trimethylbenzoyl)phosphi	nine oxide 75980-60-8			
Valu	Value 0 %				
Dau	er	28 day(s)			
Meth	Method OECD 301 F				
Sour	Source ECHA				
Eval	uation	The product is not biodegradable.			

## 12.3 Bioaccumulative potential

Pa	Partition coefficient: n-octanol/water					
N	Substance name	CAS no.				
	Cubotaneo namo	CAO IIO.				
1	diphenyl(2,4,6-trimethylbenzoyl)phosph	ne oxide 75980-60-8				
\A/i	with reference to pH: 6.4					
~~		pri. 0. <del>4</del>				

# 12.4 Mobility in soil

No data available.

# 12.5 Other adverse effects

No data available.

# 12.6 Other information

Other information

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

# 13.1 Disposal considerations

## Product

Dispose in accordance with federal, state and local regulations.

### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in accordance with federal, state and local regulations.

# **SECTION 14: Transport information**

# 14.1 US DOT (Department of Transportation)

The product is not subject to DOT regulations.

## 14.2 Transport IMDG

The product is not subject to IMDG regulations.

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## 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

# 14.4 Other information

No data available.

- **14.5** Environmental hazards Information on environmental hazards, if relevant, pls. see 14.1 - 14.3.
- **14.6** Special precautions for user No data available.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant

## SECTION 15: Regulatory information

## 15.1 US Federal Regulations

### Toxic Substances Control Act (TSCA)

According to the data available and/or specifications supplied by upstream suppliers, all components of this product are on the TSCA Inventory or are exempted from notification requirements.

## CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to Table 302.4 "List of Hazardous Substances and Reportable Quantities".

### Clean Air Act (CAA): Hazardous Air Pollutants (HAPS)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being "Hazardous Air Pollutants".

### Clean Water Act (CWA) Section 307 (Toxic Pollutants) and Section 311 (Hazardous Substances)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being "Hazardous Substances".

### EPCRA SARA Section 313, Toxic Chemical Release Inventory

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to "SARA Reporting".

## Emergency Planning & Community Right-to-Know Act (EPCRA) - Sections 302 and 304

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to reporting requirements.

### Clean Air Act (CAA) - Section 602 Ozone depleting substances

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as ozone depleting substance.

## 15.2 US State Regulations

Pen	Pennsylvania State Right to Know Hazardous Substance List					
The	product contains following substance(s) that are considere	d being "Hazardous Substances".				
No	No Substance name CAS no.					
1	diiron trioxide	1309-37-1				
2	titanium dioxide	13463-67-7				
New	New Jersey State Right to Know Hazardous Substance List					
The	The product contains following substance(s) that are considered being "Hazardous Substances".					
No	Substance name	CAS no.				
1	diiron trioxide	1309-37-1				

### 2 titanium dioxide

### 13463-67-7

### Massachusetts State Right to Know Hazardous Substance List

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being "Hazardous Substances".

### Right to Know - California State - Proposition 65

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The product contains following substance(s) that are considered being "Hazardous Substances".

No	Substance name	CAS no.	type of toxicity
1	titanium dioxide	13463-67-7	cancer

### SECTION 16: Other information, including date of preparation or last revision

# 16.1 Other information

No data available.

## 16.2 Date of preparation/revision of the SDS

Current version1.0.022.07.2020Replaced version--

## 16.3 Department issuing safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

### 16.4 Conclusions

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements. It does not, however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

### Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID 765421

## 16.5 Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists ATE - Acute Toxicity Estimate **BOD** - Biochemical Oxygen Demand CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania CAS - Chemical Abstracts Service CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act CFR - Code of Federal Regulations (US) CLP - Classification, Labelling, and Packaging DOT - Department of Transportation Commission ECHA – European Chemicals Agency EC / EL - Effective Concentration / Effective Loading **EPA - Environmental Protection Agency** IARC - International Agency for Research on Cancer IATA - International Air Transport Association IBC - Intermediate Bulk Container ICAO - International Civil Aviation Organization IDL - Ingredient Disclosure List IDLH - Immediately Dangerous to Life and Health IMDG - International Maritime Dangerous Goods IUCLID - International Uniform Chemical Information Database Kow - Octanol/water partition coefficient LD/LC - Lethal Dose/ Lethal Concentration MARPOL – Marine Pollution MEL - Maximum Exposure Limits NFPA - National Fire Protection Agency NIOSH - National Institute for Occupational Safety and Health NJTSR - New Jersey Trade Secret Registry NOEL/NOEC - No Observed Effect Level / No Observed Effect Concentration NTP - National Toxicology Program OSHA - Occupational Safety and Health Administration PEL- Permissible Exposure Limit

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RCRA - Resource Conservation and Recovery Act SARA - Superfund Amendments and Reauthorization Act STEL - Short-term Exposure Limit STOT – Specific Target Organ Toxicity TDG - Transportation of Dangerous Goods TLV - Threshold Limit Value TSCA - Toxic Substances Control Act TWA - Time Weighted Average UN/NA - United Nations /North American US - United States VLE - Exposure Limit Value (Mexico) VOC – Volatile Organic Compounds