

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name/designation DentoGem

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

#### Relevant identified uses

##### Sector of uses [SU]

Light curing resin for ResiniFy Technology's family Computer Aided Modeling Devices

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

#### Importer/Only Representative

ResiniFy Technology LLC

22350 W. Warren Ave.

Detroit MI 48239 USA

support@ResiniFyTechnology.com

1.810.888 7373

[www.ResinifyTechnology.com](http://www.ResinifyTechnology.com)

### 1.4 Emergency telephone number

This number is serviced during office hours.

---

## SECTION 2: Hazards identification

### Hazards description

#### Hazard designation:

This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use.

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP] health hazards

Skin Irrit. 2

##### hazard statements for health hazards H315

Causes skin irritation.

##### health hazards

Eye Irrit. 2

##### hazard statements for health hazards H319

Causes serious eye irritation.

##### health hazards

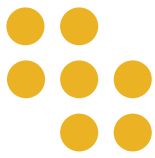
Skin Sens. 1 **hazard statements for**

**health hazards** H317 May cause an allergic skin reaction.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

---



## Hazard pictograms



GHS07

### Signal word

Warning

### Hazard statements hazard statements for health hazards

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319

Causes serious eye irritation.

### Precautionary statements

#### General:

P101 If medical advice is needed, have product container or label at hand. P102  
Keep out of reach of children.

#### Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Disposal:

P501 Dispose of contents/container to industrial incineration plant.

**Product identifiers** phenyl bis(2,4,6-trimethylbenzoyl)-phosphine  
oxide

## 2.3 Other hazards

### Other adverse effects

People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance. Process vapours can irritate airways, skin and eyes.

## SECTION 3: Composition / information on ingredients remark

Full text of H- and EUH-statements: see section 16.

**3.1/3.2 Substances/Mixtures Hazardous ingredients** phenyl bis(2,4,6-  
trimethylbenzoyl)-phosphine oxide 0.1 - 5 %

CAS 162881-26-7

EC 423-340-5

INDEX 015-189-00-5

Skin Sens. 1, H317 / Aquatic Chronic 4, H413

Methacrylated monomer 5 - 20 %

Skin Irrit. 2, H315 / Eye Irrit. 2, H319

Wax 5 - 30 %

Skin Irrit. 2, H315 / Eye Irrit. 2, H319

|               |            |
|---------------|------------|
| Print date    | 10.04.2024 |
| Revision date | 09.04.2024 |
| Version       | 1          |

---

|  |           |
|--|-----------|
| Methacrylated oligomer                   | 50 - 80 % |
| Skin Irrit. 2, H315 / Eye Irrit. 2, H319 |           |

---

## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

#### **General information**

Change contaminated, saturated clothing.

#### **Following inhalation**

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

If breathing is irregular or stopped, administer artificial respiration. **Following skin contact**

Wash immediately with: Water  
and soap

#### **After eye contact**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### **After ingestion**

If swallowed, immediately drink:

Water. Induce vomiting when the affected person is not unconscious.

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

#### **Symptoms**

No symptoms known up to now.

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

No data available

---

## **SECTION 5: Firefighting measures**

### **Additional information**

The product itself is not combustible. In case of fire and/or explosion do not breathe fumes.

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>) Dry  
extinguishing powder.

Foam

Water spray

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

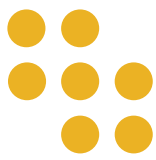
No data available

### **5.3 Advice for firefighters**

#### **Special protective equipment for firefighters**

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

---



## **SECTION 6: Accidental release measures**

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

#### **For non-emergency personnel**

##### **Personal precautions**

Wear personal protection equipment. Remove all sources of ignition.

#### **For emergency responders**

##### **Personal protection equipment**

Use appropriate respiratory protection.

### **6.2 Environmental precautions**

Do not empty into drains or the aquatic environment.

### **6.3 Methods and material for containment and cleaning up**

#### **For containment**

##### **Suitable material for taking up**

Absorbing material, organic

Sand

#### **For cleaning up**

**Suitable material for diluting or neutralizing** Water

### **6.4 Reference to other sections** No

data available

---

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work.

Provide eye shower and label its location conspicuously

#### **Protective measures**

##### **Advices on safe handling**

Avoid:

Skin contact

Eye contact

Always close containers tightly after the removal of product.

##### **Measures to prevent fire**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

**Environmental precautions** See section 8.

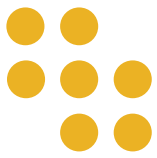
### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Hints on joint storage**

##### **Materials to avoid**

Materials to avoid

---



|               |            |
|---------------|------------|
| Print date    | 10.04.2024 |
| Revision date | 09.04.2024 |
| Version       | 1          |

Oxidising agent  
Strong alkali  
Alcohols  
Reducing agent

**Storage class**

No storage class

**Further information on storage conditions**

Keep only in the original container in a cool, well-ventilated place. Protect containers against damage. Protect against:

UV-radiation/sunlight.

**storage temperature**

**Value** 10 - 40 °C

**7.3 Specific end use(s)** No

data available

---

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

**8.1 Control parameters**

No data available

**8.2 Exposure controls**

**Personal protection equipment**

**Eye/face protection**

**Suitable eye protection**

Eye glasses with side protection goggles

**Skin protection**

**Suitable gloves type**

Disposable gloves

**Suitable material**

NBR (Nitrile rubber)

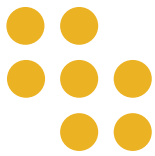
**Body protection**

**Suitable protective clothing**

Lab apron. Lab coat.

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.



# DentoGem

Print date 10.04.2024

Revision date 09.04.2024

Version 1

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

#### Physical

state viscous

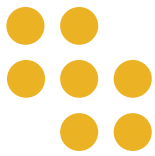
liquid

#### Colour

opaque yellow-  
orange

#### Odour

|   |                               | parameter         | Method - source - remark |
|---|-------------------------------|-------------------|--------------------------|
| pH                                      | 6.8 - 7.2                     | Temperature 25 °C |                          |
| Melting point/freezing point            |                               |                   | not determined           |
| Initial boiling point and boiling range | >100 °C                       |                   |                          |
| Flash point (°C)                        | >100 °C                       |                   |                          |
| Evaporation rate                        |                               |                   | not determined           |
| flammability                            |                               |                   | not determined           |
| Upper explosion limit                   |                               |                   | not determined           |
| lower explosion limit                   |                               |                   | not determined           |
| Vapour pressure                         | 0.0018 mm Hg                  | Temperature 25 °C |                          |
| Vapour density                          |                               |                   | not determined           |
| Relative density                        | 1.08 - 1.12 g/cm <sup>3</sup> | Temperature 25 °C |                          |
| Fat solubility (g/L)                    |                               |                   | not determined           |
| Water solubility (g/L)                  |                               |                   | not determined           |
| Soluble (g/L) in                        |                               |                   | Soluble in:              |
| Soluble (g/L) in                        |                               |                   | Insoluble in:            |
| Partition coefficient: n-octanol/water  |                               |                   | not determined           |
| Auto-ignition temperature               |                               |                   | not determined           |



# DentoGem

Print date

---

10.04.2024

Revision date

09.04.2024

Version

1

Decomposition temperature

not determined

Dynamic viscosity

1000 - 2000 mPa\*s Temperature 25 °C

flow time

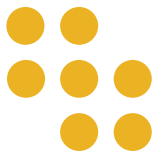
not determined

Kinematic viscosity

not determined

---

Acrylate



# DentoGem

Print date 10.04.2024

---

Revision date 09.04.2024

Version 1

## 9.2 Other information

No data available

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

In case of light influence:

Danger of polymerisation

### 10.5 Incompatible materials

#### Materials to avoid

Reacts with :

Oxidizing agents. Reducing agents. Peroxides. Radical former

### 10.6 Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

Carbon dioxide

Carbon monoxide

---

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

**Acute dermal toxicity** >2000 mg/kg

**Effective dose**

LD50:

**Species:**

Rat.

**Acute oral toxicity** >5000 mg/kg

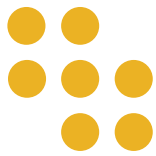
**Effective dose**

LD50:

**Species:**

Rat.





# DentoGem

Print date

---

10.04.2024

Revision date

09.04.2024

Version

1

## Serious eye damage/irritation

**In vitro eye test** slightly  
irritant

### Species:

Rabbit.

## Respiratory or skin sensitisation

### Skin sensitisation

#### Assessment/classification

May cause sensitization by inhalation and skin contact.

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

**Acute (short-term) fish toxicity** >180 mg/L

#### Effective dose

LC50:

#### Test duration 48 h species

Cyprinus carpio (Common Carp)

**Acute (short-term) toxicity to crustacea** >25 mg/L

#### Effective dose

EC50

#### Test duration 48 h species

Daphnia magna (Big water flea) **12.2**

**Persistence and degradability** No  
information available.

### 12.3 Bioaccumulative potential

**Assessment/classification** not readily  
biodegradable (according to OECD criteria) **12.4**

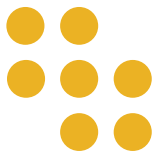
### Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available. **12.6**

**Other adverse effects** No  
information available.



# DentoGem

Print date 10.04.2024

---

Revision date 09.04.2024

Version 1

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Appropriate disposal / Product

Waste disposal according to official state regulations.

#### Appropriate disposal / Package

Handle contaminated packaging in the same way as the substance itself.

**Waste code packaging 070208 hazardous waste** Yes.



Print date 10.04.2024  
Revision date 09.04.2024  
Version 1

**Waste name**

other still bottoms and reaction residues

**Waste code product** 070208

**hazardous waste** Yes. **Waste name**

other still bottoms and reaction residues

**SECTION 14: Transport information**

|  | Land transport (ADR/RID) | Sea transport (IMDG) | Air transport (ICAO-TI / IATADGR) |
|--|--------------------------|----------------------|-----------------------------------|
| 14.1 UN-No.  | not applicable           | not applicable       | not applicable                    |
| 14.2 Proper Shipping Name  | not applicable           | not applicable       | not applicable                    |
| 14.3 Class(es)   | not applicable           | not applicable       | not applicable                    |
| 14.4 Packing group   | not applicable           | not applicable       | not applicable                    |
| 14.5 ENVIRONMENTALLY HAZARDOUS   | not applicable           | not applicable       | not applicable                    |
| 14.6 Special precautions for user  | not applicable           | not applicable       | not applicable                    |
| 14.7 Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code | not applicable           | not applicable to    | not applicable                    |

**Additional information - Land transport (ADR/RID)**

**remark**

Not a hazardous material with respect to these transportation regulations.

**Additional information - Air transport (ICAO-TI / IATA-DGR)**

**remark**

Not a hazardous material with respect to these transportation regulations.

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** No data available

**15.2 Chemical Safety Assessment**

Irritant

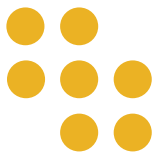
**SECTION 16: Other information**

**Additional information**

Observe labels and safety data sheets for chemicals used in processing. Notice the directions for use on the label.

**Relevant R-, H- and EUH-phrases (Number and full text)** H317

May cause an allergic skin reaction.



|               |            |
|---------------|------------|
| Print date    | 10.04.2024 |
| Revision date | 09.04.2024 |
| Version       | 1          |

---

H413 May cause long lasting harmful effects to aquatic life.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Key literature references and sources for data**

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.