

## Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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### Premium Teeth Resin

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

### 1.1 Product identifier

**Product Name:** Premium Teeth Resin

**Synonyms:** Premium Teeth HT A2 V1; Premium Teeth HT A3 V1;

Premium Teeth HT B1 V1; Premium Teeth HT Bleach V1

**Product code:** FLPTA201, FLPTA301, FLPTB101, FLPTBL01

**UFI:** ND40-YOYP-J003-JP41

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

**Relevant identified uses:** For use in Formlabs SLA printers.

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

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

**Manufacturer:**

**United States**

Formlabs, Inc

35 Medford St

Suite 201 Somerville, MA 02143

+1 617 855 0762

sds@formlabs.com

**Supplier:**

**Germany**

Formlabs GmbH

Nalepastr. 18

Berlin, . 12459

+49 30 700 146 501

### 1.4 Emergency telephone number:

**European Union**

CHEMTREC (EMEA)

+44 20 3885 0382 (24/7)

## SECTION 2: Hazard(s) identification

### 2.1 Classification of the substance or mixture:

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

Skin irritation, category 2

Eye Irritation, category 2

Skin sensitization, category 1

Chronic aquatic hazard, category 2

**Hazard-determining components of labeling:**

Urethane diethacrylate

Methacrylate Monomer(s)

Methacrylate Monomer(s)

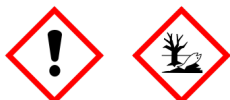
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate

**Additional Information:** None

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP)**

**Hazard pictograms:**



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**Signal Word:** Warning

**Hazard statements:**

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H317 May cause an allergic skin reaction
- H411 Toxic to aquatic life with long lasting effects

**Precautionary statements:**

- P264 Wash skin thoroughly after handling.
- P280 Wear protective gloves, protective clothing and eye protection.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray
- P272 Contaminated work clothing should not be allowed out of the workplace
- P273 Avoid release to the environment
- P302+P352 IF ON SKIN: Wash with plenty of soap and water
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P362 Take off contaminated clothing
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention
- P363 Wash contaminated clothing before reuse
- P391 Collect spillage
- P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

**2.3 Other hazards:** None known

### SECTION 3: Composition/information on ingredients

**3.1 Substance:** Not applicable.

**3.2 Mixture:**

Identification	EU REACH Registration No.	Name	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Weight %
CAS number: 72869-86-4 EC number: 276-957-5	-	Urethane diethacrylate	Skin Sens. 1; H317 Aquatic Chronic 2; H411	60-80
CAS number: Trade Secret EC number: Trade Secret	-	Methacrylate Monomer(s)	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319	5-15
CAS number: Trade Secret EC number: Trade Secret	-	Methacrylate Monomer(s)	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3 (RI); H335 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<2

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CAS number: 84434-11-7 EC number: 282-810-6	-	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	<2
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Additional information: None

Full Text of H and EUH statements: See section 16

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes:

Show this Safety Data Sheet to the doctor in attendance.

##### Following inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop or persist, seek medical advice/attention.

##### Following skin contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, seek medical advice/attention.

##### Following eye contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

##### Following ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

##### Self-Protection of the first aider:

Not determined or not available.

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

##### Acute symptoms and effects:

Skin contact may result in redness, pain, burning and inflammation.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

##### Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

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

##### Specific treatment:

Not determined or not available.

##### Notes for the doctor:

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

##### Unsuitable extinguishing media:

Do not use water jet.

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

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Thermal decomposition may produce irritating/toxic fumes/gases.

#### 5.3 Advice for firefighters

##### Personal protection equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).

##### Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

### SECTION 6: Accidental release measures

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

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

#### 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

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

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

#### 6.4 Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

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

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

#### 7.3 Specific end use(s):

Refer to Section 1 (Recommended Use).

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Only those substances with limit values have been included below.

##### Occupational Exposure limit values:

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
Lithuania	Methacrylate Monomer(s)	Trade Secret	8-Hour TWA: 20 mg/m <sup>3</sup>

#### Biological limit values:

No biological exposure limits noted for the ingredient(s).

#### Derived No Effect Level (DNEL):

**Ingredient Name:** Urethane diethacrylate

**CAS #:** 72869-86-4

Workers - Systemic Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No exposure expected
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	3.3 mg/m <sup>3</sup>
	Chronic - Dermal	1.3 mg/kg bw/day
Workers - Local Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No exposure expected
	Acute - Dermal	Hazard identified but no DNEL available
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No exposure expected
	Chronic - Dermal	Hazard identified but no DNEL available
General Population - Systemic Effects	Acute - Oral	No hazard identified
	Acute - Inhalation	No exposure expected
	Acute - Dermal	No hazard identified
	Chronic - Oral	0.3 mg/kg bw/day
	Chronic - Inhalation	0.6 mg/m <sup>3</sup>
	Chronic - Dermal	0.7 mg/kg bw/day
General Population - Local Effect	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No exposure expected
	Acute - Dermal	No exposure expected
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No exposure expected
	Chronic - Dermal	Hazard identified but no DNEL available

**Ingredient Name:** Methacrylate Monomer(s)

**CAS #:** Trade Secret

Workers - Systemic Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified; No hazard identified
	Acute - Dermal	No hazard identified; No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	4.9 mg/m <sup>3</sup> ; No hazard identified
	Chronic - Dermal	1.39 mg/kg bw/day; No hazard identified

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Workers - Local Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified; No hazard identified
	Acute - Dermal	No hazard identified; No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified; No hazard identified
	Chronic - Dermal	No hazard identified; Hazard identified but no DNEL available
General Population - Systemic Effects	Acute - Oral	No hazard identified; No hazard identified
	Acute - Inhalation	No hazard identified; No hazard identified
	Acute - Dermal	No hazard identified; No hazard identified
	Chronic - Oral	0.83 mg/kg bw/day; No hazard identified
	Chronic - Inhalation	1.45 mg/m <sup>3</sup> ; No hazard identified
	Chronic - Dermal	0.83 mg/kg bw/day; No hazard identified
General Population - Local Effect	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified; No hazard identified
	Acute - Dermal	No hazard identified; No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified; No hazard identified
	Chronic - Dermal	No hazard identified; Hazard identified but no DNEL available

**Ingredient Name:** Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate

**CAS #:** 84434-11-7

Workers - Systemic Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	4.93 mg/m <sup>3</sup>
	Chronic - Dermal	1.4 mg/kg bw/day
Workers - Local Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	Hazard identified but no DNEL available
General Population - Systemic Effects	Acute - Oral	No hazard identified
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	0.5 mg/kg bw/day
	Chronic - Inhalation	0.87 mg/m <sup>3</sup>
	Chronic - Dermal	0.5 mg/kg bw/day

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General Population - Local Effect	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified

#### Predicted No Effect Concentration (PNEC):

**Ingredient Name:** Urethane diethacrylate

**CAS #:** 72869-86-4

Environmental Protection Target	PNEC
Fresh water	0.01 mg/L
Freshwater sediments	4.56 mg/kg sediment dw
Marine water	0.001 mg/L
Marine sediments	0.46 mg/kg sediment dw
Microorganisms in sewage treatment	3.61 mg/L
Soil (agricultural)	0.91 mg/kg soil dw
Air	No hazard identified
Oral (Secondary Poisoning)	No exposure expected

**Ingredient Name:** Methacrylate Monomer(s)

**CAS #:** Trade Secret

Environmental Protection Target	PNEC
Fresh water	0.482 mg/L; 0.144 µg/L
Freshwater sediments	3.79 mg/kg sediment dw; 0.125 mg/kg sediment dw
Marine water	0.048 mg/L; 0.014 µg/L
Marine sediments	3.79 mg/kg sediment dw; 0.013 mg/kg sediment dw
Microorganisms in sewage treatment	10 mg/L; 10 mg/L
Soil (agricultural)	0.476 mg/kg soil dw; 0.022 mg/kg soil dw
Air	No hazard identified; No hazard identified
Oral (Secondary Poisoning)	No exposure expected; No hazard identified

**Ingredient Name:** Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate

**CAS #:** 84434-11-7

Environmental Protection Target	PNEC
Fresh water	1.01 µg/L
Freshwater sediments	0.24 mg/kg sediment dw
Marine water	0.101 µg/L
Marine sediments	0.024 mg/kg sediment dw
Microorganisms in sewage treatment	No hazard identified
Soil (agricultural)	0.047 mg/kg soil dw
Air	No hazard identified
Oral (Secondary Poisoning)	No exposure expected

#### Information on monitoring procedures:

Not determined or not applicable.

## 8.2 Exposure controls

**Appropriate engineering controls:**

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Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

#### Personal protection equipment

##### Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

##### Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

##### Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

#### General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

#### Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Product (substance / mixture) related measures to prevent exposure:	Not determined or not applicable.
Instruction measures to prevent exposure:	Not determined or not applicable.
Organisational measures to prevent exposure:	Not determined or not applicable.
Technical measures to prevent exposure:	Not determined or not applicable.

#### Risk management measures to control exposure:

Not determined or not applicable.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical State	Liquid
Color	Off-white
Odor/Odor threshold	Characteristic acrylate
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	>100°C
Flash point (closed cup)	>93.5°C
Flammability	Not Flammable
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.



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<b>Vapor pressure</b>	Not determined or not available.
<b>Relative vapor density</b>	Not determined or not available.
<b>Density</b>	1.23 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined or not available.
<b>Solubilities</b>	Not determined or not available.
<b>Partition coefficient (n-octanol/water)</b>	Not determined or not available.
<b>Auto/Self-ignition temperature</b>	Not determined or not available.
<b>Decomposition temperature</b>	Not determined or not available.
<b>Kinematic viscosity</b>	Not determined or not available.
<b>Particle characteristics</b>	Not determined or not available.

## 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

<b>Explosives</b>	No data available/Not applicable
<b>Flammable gases</b>	No data available/Not applicable
<b>Aerosols</b>	No data available/Not applicable
<b>Oxidizing gases</b>	No data available/Not applicable
<b>Gases under pressure</b>	No data available/Not applicable
<b>Flammable liquids</b>	No data available/Not applicable
<b>Flammable solids</b>	No data available/Not applicable
<b>Self-reactive substances and mixtures</b>	No data available/Not applicable
<b>Pyrophoric liquids</b>	No data available/Not applicable
<b>Pyrophoric solids</b>	No data available/Not applicable
<b>Self-heating substances and mixtures</b>	No data available/Not applicable
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	No data available/Not applicable
<b>Oxidizing liquids</b>	No data available/Not applicable
<b>Oxidizing solids</b>	No data available/Not applicable
<b>Organic peroxides</b>	No data available/Not applicable
<b>Corrosive to metals</b>	No data available/Not applicable
<b>Desensitized explosives</b>	No data available/Not applicable

### 9.2.2 Other safety characteristics

<b>Dynamic Viscosity</b>	1100 cP @ 25°C; 450 cP @ 35°C
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Not reactive under recommended handling and storage conditions.

### 10.2 Chemical stability:

Stable under recommended handling and storage conditions.

### 10.3 Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

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Stable under recommended handling and storage conditions.

#### 10.4 Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.  
Avoid storage >38°C (100°F) and exposure to light/direct sunlight and heat.

#### 10.5 Incompatible materials:

Polymerization initiators, including peroxides, strong oxidizing agents, alcohols, copper, copper alloys, carbon steel, iron, rust, and strong bases.

#### 10.6 Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

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

**Product data:** No data available.

##### Substance data:

Name	Route	Result
Urethane diethacrylate	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rat: >2000 mg/kg
Methacrylate Monomer(s)	oral	LD50 Rat: >5000 mg/kg
		LD50 Rat: > 2000 mg/kg
	dermal	LD50 Rabbit: >5000 mg/kg
		LD50 Rat: > 2000 mg/kg
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rat: >=2000 mg/kg

##### Skin corrosion/irritation

###### Assessment:

Causes skin irritation.

###### Product data:

No data available.

###### Substance data:

Name	Result
Methacrylate Monomer(s)	Causes skin irritation.
	Causes skin irritation.

##### Serious eye damage/irritation

###### Assessment:

Causes serious eye irritation.

###### Product data:

No data available.

###### Substance data:

Name	Result
Methacrylate Monomer(s)	Causes serious eye irritation.
	Causes serious eye irritation.

##### Respiratory or skin sensitization

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#### Assessment:

May cause an allergic skin reaction.

#### Product data:

No data available.

#### Substance data:

Name	Result
Urethane diethacrylate	May cause an allergic skin reaction.
Methacrylate Monomer(s)	May cause an allergic skin reaction.
	May cause an allergic skin reaction.
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	May cause an allergic skin reaction.

#### Carcinogenicity

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

**Product data:** No data available.

**Substance data:** No data available.

#### International Agency for Research on Cancer (IARC):

Name	Classification
Urethane diethacrylate	Not Applicable
Methacrylate Monomer(s)	Not Applicable
	Not Applicable
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Not Applicable

#### Germ cell mutagenicity

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

**Product data:** No data available.

**Substance data:** No data available.

#### Reproductive Toxicity

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

**Product data:**

No data available.

**Substance data:** No data available.

#### Specific target organ toxicity (single exposure)

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

**Product data:**

No data available.

**Substance data:**

Name	Result
Methacrylate Monomer(s)	May cause respiratory irritation.

#### Specific target organ toxicity (repeated exposure)

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

**Product data:**

No data available.

**Substance data:** No data available.

#### Aspiration toxicity

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

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**Product data:**

No data available.

**Substance data:** No data available.

**Information on likely routes of exposure:**

No data available.

**Symptoms related to the physical, chemical and toxicological characteristics:**

No data available.

#### 11.2 Information on other hazards

**Endocrine disrupting properties:**

**Substance data:** No data available.

**Other information:**

No data available.

### SECTION 12: Ecological information

#### 12.1 Toxicity

**Acute (short-term) toxicity**

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

**Product data:** No data available.

**Substance data:**

Name	Result
Urethane diethacrylate	Fish LC50 Danio rerio: 10.1 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: > 1.2 mg/L (48 hr)
Methacrylate Monomer(s)	Fish LC50 Oryzias latipes: >100 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 380 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Algae: 345 mg/L (72 hr [growth rate])
	Fish LC50 Danio rerio: 0.144 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 2.63 mg/L (48 hr [read-across])
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Aquatic Plants EC50 Pseudokirchneriella subcapitata: >2.01 mg/L (72 hr [growth rate; read-across])
	Fish LC50 Danio rerio: 1 mg/L (96 hr [read-across])
	Aquatic Invertebrates EC50 Daphnia magna: 3.53 mg/L (48 hr [read-across])

**Chronic (long-term) toxicity**

**Assessment:**

Toxic to aquatic life with long lasting effects.

**Product data:** No data available.

**Substance data:**

Name	Result
Urethane diethacrylate	Aquatic Plants NOEC Desmodesmus subspicatus: 0.21 mg/L (72 hr)
Methacrylate Monomer(s)	Aquatic Invertebrates NOEC Daphnia magna: 24.1 mg/L (21 d [reproduction])

#### 12.2 Persistence and degradability

**Product data:** No data available.

**Substance data:**

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Name	Result
Urethane diethacrylate	The substance is not readily biodegradable (22% degradation in 28 days).
Methacrylate Monomer(s)	The substance is readily biodegradable (92 - 100% degradation after 14 days, measured by Oxygen consumption).
Methacrylate Monomer(s)	The substance is not readily biodegradable based on test results for an analogous substance. 28.1% degradation in water after 28 days.
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	The substance is not readily biodegradable. <10 % degradation in water, measured by O2 consumption, after 28 days.

### 12.3 Bioaccumulative potential

**Product data:** No data available.

**Substance data:**

Name	Result
Methacrylate Monomer(s)	The substance has low potential to bioaccumulate (log kow: <=3).
Methacrylate Monomer(s)	The substance is expected to bioaccumulate in organisms. BCF (aquatic species): 1 493 L/kg ww
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	The substance has a low potential for bioaccumulation based on a log Kow of 2.91.

### 12.4 Mobility in soil

**Product data:** No data available.

**Substance data:**

Name	Result
Urethane diethacrylate	The substance has moderate potential to adsorb to organic soil and sediment particles (log Koc: 3.66 dimensionless).
Methacrylate Monomer(s)	This substance moderate potential to be adsorbed by the soil.
Methacrylate Monomer(s)	The substance is slightly mobile in soil with a high potential for adsorption to soil and sediment. Koc at 20 °C: 8674
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Based on a log Koc of 3.37, adsorption to solid soil phase is expected.

### 12.5 Results of PBT and vPvB assessment

**Product data:**

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

**Substance data:**

**PBT assessment:**

Urethane diethacrylate	This substance is not PBT.
Methacrylate Monomer(s)	The substance is not PBT.
Methacrylate Monomer(s)	This substance is not PBT.

**vPvB assessment:**

Urethane diethacrylate	This substance is not vPvB.
Methacrylate Monomer(s)	The substance is not vPvB.
Methacrylate Monomer(s)	This substance is not vPvB.

### 12.6 Endocrine disrupting properties

**Substance data:** No data available.

### 12.7 Other adverse effects: No data available.

### 12.8 Hazard to the ozone layer

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

**Product data:** No data available.

**Substance data:** No data available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### 13.1.1 Product / Packaging disposal:

Dispose contaminated packages in a safe manner in accordance with local and national regulations. Do not allow the product to be released into the environment.

**Waste codes / waste designations according to LoW:** Not determined or not available.

#### 13.1.2 Waste treatment-relevant information:

Not determined or not available.

#### 13.1.3 Sewage disposal-relevant information:

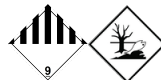
Not determined or not available.

#### 13.1.4 Other disposal recommendations:

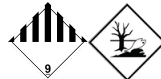
Do not discharge into public wastewater or surface waters. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

## SECTION 14: Transport information

### International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

UN number or ID number	UN 3082
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Urethane dimethacrylate
UN transport hazard class(es)	9 
Packing group	III
Environmental hazards	Marine Pollutant
Special precautions for user	None
Additional Information	This product is not regulated as a dangerous good when transported in sizes of ≤5L or ≤5 kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

### International Carriage of Dangerous Goods by Inland Waterways (ADN)

UN number or ID number	UN 3082
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Urethane dimethacrylate
UN transport hazard class(es)	9 
Packing group	III
Environmental hazards	Marine Pollutant
Special precautions for user	None
Additional Information	This product is not regulated as a dangerous good when transported in sizes of ≤5L or ≤5 kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

## Safety Data Sheet

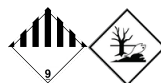
According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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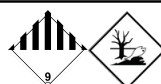
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#### International Maritime Dangerous Goods (IMDG)

UN number or ID number	UN 3082
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Urethane dimethacrylate
UN transport hazard class(es)	9 
Packing group	III
Environmental hazards	Marine Pollutant
Special precautions for user	None
Additional Information	This product is not regulated as a dangerous good when transported in sizes of ≤5L or ≤5 kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

#### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number or ID number	UN 3082
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Urethane dimethacrylate
UN transport hazard class(es)	9 
Packing group	III
Environmental hazards	Marine Pollutant
Special precautions for user	None
Additional Information	This product is not regulated as a dangerous good when transported in sizes of ≤5L provided the packaging meets the general provisions of 5.0.2.4.1, 5.0.2.6.1 and 5.0.2.8.

#### Maritime Transport in Bulk according to IMO Instruments

Bulk Name	None
Ship type	None
Pollution category	None
IMO hazard class	None
Environmental hazards	None
Material hazardous only in bulk	None
Cargo Group	None

### SECTION 15: Regulatory information

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

##### European regulations

**Inventory listing (EINECS):** All ingredients are listed or exempt.

**REACH SVHC candidate list:** None of the ingredients are listed.

**REACH SVHC Authorizations:** None of the ingredients are listed.

**REACH Restriction:** None of the ingredients are listed.

**Water hazard class (WGK) (Product):** Not determined.

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#### Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
Urethane diethacrylate	72869-86-4	Water hazard class 1: slightly hazardous to water
Methacrylate Monomer(s)	Trade Secret	Water hazard class 1: slightly hazardous to water
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinite	84434-11-7	Water hazard class 2: obviously hazardous to water

#### Other regulations

**Germany TA Luft:** None of the ingredients are listed.

**Additional information:** Not determined.

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### SECTION 16: Other information

**Abbreviations and Acronyms:** None

#### Classification procedure:

Classification according to Regulation (EC) No. 1272/2008 (CLP)	Method Used
Skin irritation, category 2	Calculation method
Eye Irritation, category 2	Calculation method
Skin sensitization, category 1	Calculation method
Chronic aquatic hazard, category 2	Calculation method

#### Summary of classification(s) in section 3:

Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 2	Chronic aquatic hazard, category 2
Skin Irrit. 2	Skin irritation, category 2
Eye Irrit. 2	Eye Irritation, category 2
STOT SE 3 (RI)	Specific target organ toxicity - single exposure, category 3, respiratory tract irritation
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Acute aquatic hazard, category 1
Aquatic Chronic 1	Chronic aquatic hazard, category 1

#### Summary of hazard statements in section 3:

H317	May cause an allergic skin reaction
H411	Toxic to aquatic life with long lasting effects
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

#### Disclaimer:

This product has been classified in accordance with EC No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and EC No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation, and disposal and is not to be



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considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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**End of Safety Data Sheet**