

## 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 Commission Delegated Regulation (EU) 2023/707, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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### Flexible 80A V2 Resin

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

##### 1.1 Product identifier

**Product Name:** Flexible 80A V2 Resin

**Product code:** FLFL8002

**UFI:** 9X50-30DU-2000-GTM6

##### 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  
Mühlenstraße 15  
Floor 1  
Berlin  
+44 8081 341875

##### 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

Serious eye damage, category 1

Skin sensitization, category 1

**Hazard-determining components of labeling:**

Methacrylate Monomer

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

**Additional Information:** None

##### 2.2 Label elements

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

**Hazard pictograms:**



**Signal Word:** Danger

**Hazard statements:**

H315 Causes skin irritation

H318 Causes serious eye damage

H317 May cause an allergic skin reaction

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#### 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
- 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
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention
- P363 Wash contaminated clothing before reuse
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 Immediately call a POISON CENTER.
- 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:<br>Trade Secret<br>EC number:<br>Trade Secret   | -                         | Methacrylate Monomer                                   | Skin Irrit. 2; H315<br>Skin Sens. 1; H317<br>Eye Irrit. 2; H319                                    | 25-40    |
| CAS number:<br>Trade Secret<br>EC number:<br>Not Applicable | -                         | Methacrylate Monomer                                   | Eye Dam. 1; H318<br>Skin Irrit. 2; H315<br>Acute Tox. 4 (Oral);<br>H302<br>STOT SE 3 (RI);<br>H335 | 10-15    |
| CAS number:<br>Trade Secret<br>EC number:<br>Not Applicable | -                         | Aliphatic polyurethane                                 | Not classified;                                                                                    | <3       |
| CAS number:<br>162881-26-7<br>EC number:<br>423-340-5       | -                         | Phenyl bis(2,4,6-trimethylbenzoyl)-<br>phosphine oxide | Aquatic Chronic 4;<br>H413<br>Skin Sens. 1A;<br>H317                                               | <2       |

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.

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#### 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.

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

Eye contact may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision.

#### 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:

In case of eye contact, seek prompt medical attention while rinsing is continued.

#### 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:

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.

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### 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:

| Country (Legal Basis) | Substance            | Identifier   | Permissible concentration        |
|-----------------------|----------------------|--------------|----------------------------------|
| Lithuania             | Methacrylate Monomer | 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:** Methacrylate Monomer

**CAS #:** Trade Secret

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|                                       |                      |                                   |
|---------------------------------------|----------------------|-----------------------------------|
| 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 | 4.9 mg/m <sup>3</sup>             |
|                                       | Chronic - Dermal     | 1.39 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     | No hazard identified              |
| General Population - Systemic Effects | Acute - Oral         | No hazard identified              |
|                                       | Acute - Inhalation   | No hazard identified              |
|                                       | Acute - Dermal       | No hazard identified              |
|                                       | Chronic - Oral       | 0.83 mg/kg bw/day                 |
|                                       | Chronic - Inhalation | 1.45 mg/m <sup>3</sup>            |
|                                       | Chronic - Dermal     | 0.83 mg/kg bw/day                 |
| 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              |

**Ingredient Name:** Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

**CAS #:** 162881-26-7

|                            |                      |                                         |
|----------------------------|----------------------|-----------------------------------------|
| Workers - Systemic Effects | Acute - Oral         | Not determined or not applicable.       |
|                            | Acute - Inhalation   | Not determined or not applicable.       |
|                            | Acute - Dermal       | No hazard identified                    |
|                            | Chronic - Oral       | Not determined or not applicable.       |
|                            | Chronic - Inhalation | 21 mg/m <sup>3</sup>                    |
|                            | Chronic - Dermal     | 3 mg/kg bw/day                          |
| Workers - Local Effects    | Acute - Oral         | Not determined or not applicable.       |
|                            | Acute - Inhalation   | Not determined or not applicable.       |
|                            | Acute - Dermal       | Hazard identified but no DNEL available |
|                            | Chronic - Oral       | Not determined or not applicable.       |
|                            | Chronic - Inhalation | Not determined or not applicable.       |
|                            | Chronic - Dermal     | Hazard identified but no DNEL available |

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|                                          |                      |                                         |
|------------------------------------------|----------------------|-----------------------------------------|
| General Population -<br>Systemic Effects | Acute - Oral         | No hazard identified                    |
|                                          | Acute - Inhalation   | Not determined or not applicable.       |
|                                          | Acute - Dermal       | No hazard identified                    |
|                                          | Chronic - Oral       | 1.5 mg/kg bw/day                        |
|                                          | Chronic - Inhalation | 5.2 mg/m <sup>3</sup>                   |
|                                          | Chronic - Dermal     | 1.5 mg/kg bw/day                        |
| General Population -<br>Local Effect     | Acute - Oral         | Not determined or not applicable.       |
|                                          | Acute - Inhalation   | Not determined or not applicable.       |
|                                          | Acute - Dermal       | Hazard identified but no DNEL available |
|                                          | Chronic - Oral       | Not determined or not applicable.       |
|                                          | Chronic - Inhalation | Not determined or not applicable.       |
|                                          | Chronic - Dermal     | Hazard identified but no DNEL available |

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

**Ingredient Name:** Methacrylate Monomer

**CAS #:** Trade Secret

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

**Ingredient Name:** Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

**CAS #:** 162881-26-7

| Environmental Protection Target    | PNEC                    |
|------------------------------------|-------------------------|
| Fresh water                        | 1 µg/L                  |
| Freshwater sediments               | 0.712 mg/kg sediment dw |
| Marine water                       | 1 µg/L                  |
| Marine sediments                   | 0.712 mg/kg sediment dw |
| Microorganisms in sewage treatment | 1 mg/L                  |
| Soil (agricultural)                | 20 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:**

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:**

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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                              | Black                            |
| 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. |
| Vapor pressure                     | Not determined or not available. |
| Relative vapor density             | Not determined or not available. |
| Density                            | Not determined or not available. |
| Relative density                   | 1.04g/cm <sup>3</sup> @ 25°C     |
| Solubilities                       | Not determined or not available. |

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|                                                |                                  |
|------------------------------------------------|----------------------------------|
| <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> | 3310 cps @ 25°C; 1960 cps @ 35°C |
|--------------------------|----------------------------------|

## 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.

### 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.

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#### 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                   |
|----------------------------------------------------|--------|--------------------------|
| Methacrylate Monomer                               | oral   | LD50 Rat: 5564 mg/kg     |
|                                                    | dermal | LD50 Rabbit: >5000 mg/kg |
| Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | oral   | LD50 Rat: >2000 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 | Causes skin irritation. |

##### Serious eye damage/irritation

##### Assessment:

Causes serious eye damage.

##### Product data:

No data available.

##### Substance data:

| Name                 | Result                         |
|----------------------|--------------------------------|
| Methacrylate Monomer | Causes serious eye irritation. |

##### Respiratory or skin sensitization

##### Assessment:

May cause an allergic skin reaction.

##### Product data:

No data available.

##### Substance data:

| Name                                               | Result                               |
|----------------------------------------------------|--------------------------------------|
| Methacrylate Monomer                               | May cause an allergic skin reaction. |
| Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | May cause an allergic skin reaction. |

##### Carcinogenicity

**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.

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

| Name                                               | Classification |
|----------------------------------------------------|----------------|
| Methacrylate Monomer                               | Not Applicable |
|                                                    | Not Applicable |
| Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | Not Applicable |
| Aliphatic polyurethane                             | 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:** No data available.

#### 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.

**Product data:**

No data available.

**Substance data:** No data available.

#### Endocrine disrupting properties:

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

**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

**Other information:**

No data available.

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### 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                                                                                       |
|----------------------------------------------------|----------------------------------------------------------------------------------------------|
| Methacrylate Monomer                               | Fish LC50 <i>Oryzias latipes</i> : >100 mg/L (96 hr)                                         |
|                                                    | Aquatic Invertebrates EC50 <i>Daphnia magna</i> : 380 mg/L (48 hr [mobility])                |
|                                                    | Aquatic Plants EC50 Algae: 345 mg/L (72 hr [growth rate])                                    |
| Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | Aquatic Plants EC50 <i>Desmodium subspicatus</i> : >0.26 mg/L (72 hr [growth rate, biomass]) |
|                                                    | Fish LC50 <i>Danio rerio</i> : >0.09 mg/L (96 hr)                                            |
|                                                    | Aquatic Invertebrates EC50 <i>Daphnia magna</i> : >1.175 mg/L (48 hr [mobility])             |

##### Chronic (long-term) toxicity

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

**Product data:** No data available

##### Substance data:

| Name                                               | Result                                                                                    |
|----------------------------------------------------|-------------------------------------------------------------------------------------------|
| Methacrylate Monomer                               | Aquatic Invertebrates NOEC <i>Daphnia magna</i> : 24.1 mg/L (21 d [reproduction])         |
| Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | Aquatic Invertebrates NOEC <i>Daphnia magna</i> : $\geq 0.0081$ mg/L (21d [reproduction]) |

#### 12.2 Persistence and degradability

**Product data:** No data available

##### Substance data:

| Name                                               | Result                                                                                                                    |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Methacrylate Monomer                               | The substance is readily biodegradable. 92 - 100% degradation, measured by Oxygen consumption, after 14 days.             |
| Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | The substance is not readily biodegradable. 1% degradation in water, measured by CO <sub>2</sub> evolution after 29 days. |

#### 12.3 Bioaccumulative potential

**Product data:** No data available

##### Substance data:

| Name                                               | Result                                                                                               |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Methacrylate Monomer                               | The substance has low potential to bioaccumulate (log <i>K<sub>ow</sub></i> : $\leq 3$ ).            |
| Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | The substance is not expected to bioaccumulate (BCF: < 5, aquatic species: <i>Cyprinus carpio</i> ). |

#### 12.4 Mobility in soil

**Product data:** No data available

##### Substance data:

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| Name                                               | Result                                                                                                                                                                                                          |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methacrylate Monomer                               | This substance has high water solubility (>100 g/L at 20 °C), a low vapor pressure (0.08 hPa at 20 °C), and low log Kow (0.42 at 25 °C). The substance has a low potential for adsorption to soil or sediments. |
| Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | The substance is slightly mobile, therefore, adsorption to soil and sediment is expected (log Koc: 3.85).                                                                                                       |

#### 12.5 Persistent, bioaccumulative and toxic (PBT) or very persistent, very bioaccumulative (vPvB) properties

##### PBT Properties

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

**Product data:** No data available

##### Substance data:

|                                                    |                           |
|----------------------------------------------------|---------------------------|
| Methacrylate Monomer                               | The substance is not PBT. |
| Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | The substance is not PBT. |

##### vPvB Properties

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

**Product data:** No data available

##### Substance data:

|                                                    |                            |
|----------------------------------------------------|----------------------------|
| Methacrylate Monomer                               | The substance is not vPvB. |
| Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | The substance is not vPvB. |

#### 12.6 Persistent, mobile and toxic (PMT) or very persistent, very mobile (vPvM) properties

##### PMT Properties

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

**Product data:** No data available

**Substance data:** No data available

##### vPvM Properties

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

**Product data:** No data available

**Substance data:** No data available

#### 12.7 Endocrine disrupting properties

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

**Product data:**

No data available

**Substance data:** No data available

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

#### 12.9 Hazard to the ozone layer

**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:

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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)

|                                      |               |
|--------------------------------------|---------------|
| <b>UN number or ID number</b>        | Not regulated |
| <b>UN proper shipping name</b>       | Not regulated |
| <b>UN transport hazard class(es)</b> | None          |
| <b>Packing group</b>                 | None          |
| <b>Environmental hazards</b>         | None          |
| <b>Special precautions for user</b>  | None          |

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

|                                      |               |
|--------------------------------------|---------------|
| <b>UN number or ID number</b>        | Not regulated |
| <b>UN proper shipping name</b>       | Not regulated |
| <b>UN transport hazard class(es)</b> | None          |
| <b>Packing group</b>                 | None          |
| <b>Environmental hazards</b>         | None          |
| <b>Special precautions for user</b>  | None          |

#### International Maritime Dangerous Goods (IMDG)

|                                      |               |
|--------------------------------------|---------------|
| <b>UN number or ID number</b>        | Not regulated |
| <b>UN proper shipping name</b>       | Not regulated |
| <b>UN transport hazard class(es)</b> | None          |
| <b>Packing group</b>                 | None          |
| <b>Environmental hazards</b>         | None          |
| <b>Special precautions for user</b>  | None          |

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

|                                      |               |
|--------------------------------------|---------------|
| <b>UN number or ID number</b>        | Not regulated |
| <b>UN proper shipping name</b>       | Not regulated |
| <b>UN transport hazard class(es)</b> | None          |
| <b>Packing group</b>                 | None          |
| <b>Environmental hazards</b>         | None          |
| <b>Special precautions for user</b>  | None          |

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

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|                                        |      |
|----------------------------------------|------|
| <b>Bulk Name</b>                       | None |
| <b>Ship type</b>                       | None |
| <b>Pollution category</b>              | None |
| <b>IMO hazard class</b>                | None |
| <b>Environmental hazards</b>           | None |
| <b>Material hazardous only in bulk</b> | None |
| <b>Cargo Group</b>                     | None |

### SECTION 15: Regulatory information

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

##### European regulations

##### Inventory listing (EINECS):

|              |                                                    |            |
|--------------|----------------------------------------------------|------------|
| Trade Secret | Methacrylate Monomer                               | Listed     |
| 162881-26-7  | Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | Not Listed |

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

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

**REACH Restriction:** All ingredients are listed or exempt.

**Water hazard class (WGK) (Product):** Class 1

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

| Ingredient Name                                    | CAS          | Class                                             |
|----------------------------------------------------|--------------|---------------------------------------------------|
| Methacrylate Monomer                               | Trade Secret | Water hazard class 1: slightly hazardous to water |
| Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | 162881-26-7  | Water hazard class 1: slightly hazardous to water |

##### Other regulations

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

##### Additional information:

MAL Code: 0-1

#### 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 |
| Serious eye damage, category 1                                  | Calculation method |
| Skin sensitization, category 1                                  | Calculation method |

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

|               |                                |
|---------------|--------------------------------|
| Skin Irrit. 2 | Skin irritation, category 2    |
| Skin Sens. 1  | Skin sensitization, category 1 |
| Eye Irrit. 2  | Eye Irritation, category 2     |

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|                     |                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------|
| Eye Dam. 1          | Serious eye damage, category 1                                                             |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), category 4                                                          |
| STOT SE 3 (RI)      | Specific target organ toxicity - single exposure, category 3, respiratory tract irritation |
| Aquatic Chronic 4   | Chronic aquatic hazard, category 4                                                         |
| Skin Sens. 1A       | Skin sensitization, category 1A                                                            |

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

|      |                                                        |
|------|--------------------------------------------------------|
| H315 | Causes skin irritation                                 |
| H317 | May cause an allergic skin reaction                    |
| H319 | Causes serious eye irritation                          |
| H318 | Causes serious eye damage                              |
| H302 | Harmful if swallowed                                   |
| H335 | May cause respiratory irritation                       |
| H413 | May cause long lasting harmful effects to aquatic life |

#### 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 Commission Delegated Regulation (EU) 2023/707, 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 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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#### Revision Notes:

| Revision Date | Notes       |
|---------------|-------------|
| 2026-01-26    | Version 1.0 |

End of Safety Data Sheet