

## 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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### Tough 1500 Resin V2

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

### 1.1 Product identifier

**Product Name:** Tough 1500 Resin V2

**Product code:** FLTO1502

**UFI:** 9P50-K0AN-400H-GSV0

### 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, . 10243  
+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

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Chronic aquatic hazard, category 2

**Hazard-determining components of labeling:**

Methacrylate monomer(s)

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

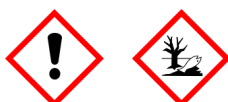
Urethane dimethacrylate

**Additional Information:** None

### 2.2 Label elements

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

**Hazard pictograms:**



**Signal Word:** Warning

**Hazard statements:**

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H315 Causes skin irritation  
H319 Causes serious eye irritation  
H317 May cause an allergic skin reaction  
H335 May cause respiratory irritation  
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  
P271 Use only outdoors or in a well-ventilated area  
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  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P312 Call a POISON CENTER/doctor/ if you feel unwell  
P391 Collect spillage  
P403+P233 Store in a well-ventilated place. Keep container tightly closed  
P405 Store locked up  
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: Trade Secret EC number: Trade Secret	-	Methacrylate monomer(s)	Skin Irrit. 2; H315 STOT SE 3 (RI); H335 Aquatic Chronic 3; H412 Eye Irrit. 2; H319	40-60
CAS number: 72869-86-4 EC number: 276-957-5	-	Urethane dimethacrylate	Skin Sens. 1; H317 Aquatic Chronic 2; H411	15-25
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	<5

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CAS number: Trade Secret EC number: Trade Secret	-	Colorant	Not classified;	<1
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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.

Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract.

##### 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:

If respiratory symptoms persist, seek medical attention.

##### 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:

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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.

### 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
Bulgaria	Colorant	Trade Secret	TWA: 10 mg/m <sup>3</sup> (respirable dust)
Croatia	Colorant	Trade Secret	15-Minute STEL: 10 mg/m <sup>3</sup> (total dust)
	Colorant	Trade Secret	15-Minute STEL: 4 mg/m <sup>3</sup> (respirable dust)
Cyprus	Colorant	Trade Secret	8-Hour TWA: 10 mg/m <sup>3</sup>
Estonia	Colorant	Trade Secret	8-Hour TWA: 5 mg/m <sup>3</sup>
Latvia	Colorant	Trade Secret	8-Hour TWA: 10 mg/m <sup>3</sup>
Lithuania	Colorant	Trade Secret	8-Hour TWA: 5 mg/m <sup>3</sup>
Romania	Colorant	Trade Secret	8-Hour TWA: 10 mg/m <sup>3</sup>
	Colorant	Trade Secret	15-Minute STEL: 15 mg/m <sup>3</sup>
Slovakia	Colorant	Trade Secret	8-Hour TWA: 5 mg/m <sup>3</sup> (NPEL)
Austria	Colorant	Trade Secret	8-Hour TWA: 5 mg/m <sup>3</sup> (dust, respirable fraction)
	Colorant	Trade Secret	STEL: 10 mg/m <sup>3</sup> (alveolar dust, respirable fraction 2 X 60 min)
Belgium	Colorant	Trade Secret	8-Hour TWA: 10 mg/m <sup>3</sup>
Denmark	Colorant	Trade Secret	TWA: 6 mg/m <sup>3</sup> (as Ti)
	Colorant	Trade Secret	STEL: 12 mg/m <sup>3</sup> (total dust)
Finland	Colorant	Trade Secret	8-Hour TWA: 10 mg/m <sup>3</sup> (dust)
France	Colorant	Trade Secret	8-Hour TWA: 10 mg/m <sup>3</sup> (as Ti)
Greece	Colorant	Trade Secret	8-Hour TWA: 10 mg/m <sup>3</sup> (Inhalable)
	Colorant	Trade Secret	8-Hour TWA: 5 mg/m <sup>3</sup> (respirable)
Ireland	Colorant	Trade Secret	8-Hour TWA: 10 mg/m <sup>3</sup> (total inhalable dust)
	Colorant	Trade Secret	8-Hour TWA: 4 mg/m <sup>3</sup> (respirable dust)
	Colorant	Trade Secret	STEL: 12 mg/m <sup>3</sup>
	Colorant	Trade Secret	STEL: 30 mg/m <sup>3</sup>
Italy	Colorant	Trade Secret	8-Hour TWA: 2.5 mg/m <sup>3</sup> (finescale particles, respirable fraction)
	Colorant	Trade Secret	8-Hour TWA: 0.2 mg/m <sup>3</sup> (nanoscale particles, respirable fraction)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Colorant	Trade Secret	TWA: 10 mg/m <sup>3</sup> (ACGIH)
Portugal	Colorant	Trade Secret	8-Hour TWA: 10 mg/m <sup>3</sup>
Spain	Colorant	Trade Secret	8-Hour TWA: 10 mg/m <sup>3</sup> (VLA_ED)
Sweden	Colorant	Trade Secret	Level Limit Value: 5 mg/m <sup>3</sup> (total dust)
United Kingdom	Colorant	Trade Secret	8-Hour TWA: 10 mg/m <sup>3</sup> (total inhalable)
	Colorant	Trade Secret	8-Hour TWA: 4 mg/m <sup>3</sup> (respirable)
	Colorant	Trade Secret	STEL: 12 mg/m <sup>3</sup> (respirable)
	Colorant	Trade Secret	STEL: 30 mg/m <sup>3</sup> (total inhalable)
Germany (MAK)	Colorant	Trade Secret	8-Hour TWA: 0.3 mg/m <sup>3</sup> (respirable fraction, except ultrafine particles)
	Colorant	Trade Secret	8-Hour TWA: 4 mg/m <sup>3</sup> (dust, general threshold limit value [inhalable fraction])
Poland	Colorant	Trade Secret	8-Hour TWA: 10 mg/m <sup>3</sup> (concentration of the respirable Crystalline silica fraction is determined simultaneously inhalable fraction)
	Colorant	Trade Secret	15-Minute STEL: 30 mg/m <sup>3</sup> (titanium and compounds, as Ti)
Slovenia	Colorant	Trade Secret	8-Hour TWA: 10 mg/m <sup>3</sup> (dust, inhalable fraction)
	Colorant	Trade Secret	15-Minute STEL: 20 mg/m <sup>3</sup> (dust, inhalable fraction)
	Colorant	Trade Secret	8-Hour TWA: 1.25 mg/m <sup>3</sup> (dust, respirable fraction)
	Colorant	Trade Secret	15-Minute STEL: 2.5 mg/m <sup>3</sup> (dust, respirable fraction)
Germany (TRGS 900)	Colorant	Trade Secret	Limit Value: 1.25 mg/m <sup>3</sup> (general dust limit, respirable fraction)
	Colorant	Trade Secret	Limit Value: 10 mg/m <sup>3</sup> (general dust limit, inhalable fraction)

#### Biological limit values:

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

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

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

**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	1.22 mg/m <sup>3</sup>
	Chronic - Dermal	0.35 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	0.21 mg/kg bw/day
	Chronic - Inhalation	0.36 mg/m <sup>3</sup>
	Chronic - Dermal	0.21 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:** 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

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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
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:** Urethane dimethacrylate

**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:** Colorant

**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	No hazard identified
	Chronic - Dermal	No hazard identified
Workers - Local 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	1.25 mg/m <sup>3</sup> ; No hazard identified
	Chronic - Dermal	No hazard identified
General Population - Systemic Effects	Acute - Oral	No hazard identified
	Acute - Inhalation	No hazard identified
	Acute - Dermal	Not determined or not applicable.
	Chronic - Oral	No hazard identified
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified; No hazard identified
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	Not determined or not applicable.
	Chronic - Dermal	No hazard identified

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

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

**CAS #:** Trade Secret

Environmental Protection Target	PNEC
Fresh water	2.33 µg/L
Freshwater sediments	1.2 mg/kg sediment dw
Marine water	0.233 µg/L
Marine sediments	0.12 mg/kg sediment dw
Microorganisms in sewage treatment	2.45 mg/L
Soil (agricultural)	0.239 mg/kg soil dw
Air	No hazard identified
Oral (Secondary Poisoning)	No exposure expected

**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

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Soil (agricultural)	0.047 mg/kg soil dw
Air	No hazard identified
Oral (Secondary Poisoning)	No exposure expected

**Ingredient Name:** Urethane dimethacrylate

**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:** Colorant

**CAS #:** Trade Secret

Environmental Protection Target	PNEC
Fresh water	No hazard identified
Freshwater sediments	No hazard identified
Marine water	No hazard identified
Marine sediments	No hazard identified
Microorganisms in sewage treatment	No hazard identified
Soil (agricultural)	No hazard identified
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:

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

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

#### 9.2 Other information

##### 9.2.1 Information with regard to physical hazard classes

Explosives	No data available/Not applicable
Flammable gases	No data available/Not applicable
Aerosols	No data available/Not applicable

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<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>	1000 cP (25°C), 700 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.  
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:**

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Name	Route	Result
Methacrylate monomer(s)	oral	LD50 Rat: 3160 mg/kg
	dermal	LD50 Rabbit: >3000 mg/kg
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rat: >=2000 mg/kg
Urethane dimethacrylate	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rat: >2000 mg/kg
Colorant	oral	LD50 Rat: > 5000 mg/kg
	inhalation	LC50 Rat: 5.09 mg/L (4 hr [aerosol])

#### Skin corrosion/irritation

**Assessment:**

Causes skin irritation.

**Product data:**

No data available.

**Substance data:**

Name	Result
Methacrylate monomer(s)	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

#### Respiratory or skin sensitization

**Assessment:**

May cause an allergic skin reaction.

**Product data:**

No data available.

**Substance data:**

Name	Result
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	May cause an allergic skin reaction.
Urethane dimethacrylate	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
Methacrylate monomer(s)	Not Applicable

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Name	Classification
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Not Applicable
Urethane dimethacrylate	Not Applicable
Colorant	Group 2B

#### 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:**

May cause respiratory irritation.

**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.

**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.

## SECTION 12: Ecological information

## Safety Data Sheet

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#### 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(s)	Fish LC50 Danio rerio: 1.79 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 2.57 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Pseudokirchneriella subcapitata: 2.28 mg/L (72 hr [growth rate])
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])
Urethane dimethacrylate	Fish LC50 Danio rerio: 10.1 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: > 1.2 mg/L (48 hr)
Colorant	Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Raphidocelis subcapitata: >100 mg/L (72 hr [growth rate])
	Fish LC50 Pimephales promelas: >1000 mg/L (96 hr)

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

##### Assessment:

Toxic to aquatic life with long lasting effects.

**Product data:** No data available

##### Substance data:

Name	Result
Methacrylate monomer(s)	Aquatic Invertebrates EC50 Daphnia magna: 0.658 mg/L (21 d [reproduction])
Urethane dimethacrylate	Aquatic Plants NOEC Desmodesmus subspicatus: 0.21 mg/L (72 hr)
Colorant	Fish NOEC Freshwater fish: >= 80 mg/L (6 d [time to hatch])
	Aquatic Invertebrates NOEC Daphnia magna: >= 10 mg/L (21 d [population and growth rate])

#### 12.2 Persistence and degradability

**Product data:** No data available

##### Substance data:

Name	Result
Methacrylate monomer(s)	The substance is readily biodegradable. 70% degradation in water, measured by CO2 evolution, 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.
Urethane dimethacrylate	The substance is not readily biodegradable (22% degradation in 28 days).
Colorant	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.

#### 12.3 Bioaccumulative potential

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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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**Product data:** No data available

**Substance data:**

Name	Result
Methacrylate monomer(s)	Bioaccumulation can be assumed based on a log Pow value of 5.09. However, due to expected rapid metabolism and non-bioaccumulative potential of the metabolites, bioaccumulation in organisms is not expected.
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	The substance has a low potential for bioaccumulation based on a log Kow of 2.91.
Colorant	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.

#### 12.4 Mobility in soil

**Product data:** No data available

**Substance data:**

Name	Result
Methacrylate monomer(s)	The substance is slightly mobile in soil with a high potential for adsorption to soil and sediment. Log Koc: 3.71
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Based on a log Koc of 3.37, adsorption to solid soil phase is expected.
Urethane dimethacrylate	The substance has moderate potential to adsorb to organic soil and sediment particles (log Koc: 3.66 dimensionless).
Colorant	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.

#### 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(s)	This substance is not PBT
Urethane dimethacrylate	This substance is not PBT.
Colorant	PBT assessment does not apply to inorganic compounds such as this substance.

##### vPvB Properties

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

**Product data:** No data available

**Substance data:**

Methacrylate monomer(s)	This substance is not vPvB
Urethane dimethacrylate	This substance is not vPvB.
Colorant	vPvB assessment does not apply to inorganic compounds such as this substance.

#### 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.



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**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:

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 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 

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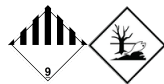
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### Tough 1500 Resin V2

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 $\leq 5L$ 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 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 $\leq 5L$ provided the packaging meets the general provisions of 5.0.2.4.1, 5.0.2.6.1 and 5.0.2.8.

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

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

### 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.

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### Tough 1500 Resin V2

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

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

Ingredient Name	CAS	Class
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
Urethane dimethacrylate	72869-86-4	Water hazard class 1: slightly hazardous to water
Colorant	Trade Secret	Non-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
Eye Irritation, category 2	Calculation method
Skin sensitization, category 1	Calculation method
Specific target organ toxicity - single exposure, category 3, respiratory tract irritation	Calculation method
Chronic aquatic hazard, category 2	Calculation method

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

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

### Summary of hazard statements in section 3:

H315	Causes skin irritation
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects
H319	Causes serious eye irritation
H317	May cause an allergic skin reaction
H411	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 Commission

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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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**End of Safety Data Sheet**