

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)

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**Black Resin** 

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

1.1 Product identifier

**Product Name:** Black Resin **Product code:** FLGPBK04

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:Supplier:United StatesGermanyFormlabs, IncFormlabs GmbH35 Medford StNalepastr. 18Suite 201 Somerville, MA 02143Berlin, . 12459+1 617 855 0762+49 30 555 795 880

sds@formlabs.com

# 1.4 Emergency telephone number:

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

#### SECTION 2: Hazard(s) identification

# 2.1 Classification of the substance or mixture:

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

Eye Irritation, category 2 Skin sensitization, category 1 Chronic aquatic hazard, category 2

#### Hazard-determining components of labeling:

Urethane Dimethacrylate Methacrylate Monomer(s)

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:** Warning **Hazard statements:** 

H319 Causes serious eye irritation H317 May cause an allergic skin reaction

H411 Toxic to aquatic life with long lasting effects

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)

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## **Precautionary statements:**

P264 Wash skin thoroughly after handling

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

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.

P302+P352 IF ON SKIN: Wash with plenty of water

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/container to in accordance with local/regional/national 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 Dimethacrylate	Skin Sens. 1; H317 Aquatic Chronic 2; H411	55-75
CAS number: Trade Secret EC number: 248-666-3	-	Methacrylate Monomer(s)	Skin Sens. 1; H317 Eye Irrit. 2; H319	15-25
CAS number: 162881-26-7 EC number: 423-340-5	-	Phenyl bis(2,4,6- trimethylbenzoyl)-phosphine oxide	Aquatic Chronic 4; H413 Skin Sens. 1A; H317	<0.9

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:

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)

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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:

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:

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) with a full-face piece operated in positive pressure mode.

#### **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.

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)

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#### 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:

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

#### **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

	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
Workers - Systemic	Acute - Dermal	No hazard identified
Effects	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	14.7 mg/m³
	Chronic - Dermal	4.2 mg/kg bw/day

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	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
Workers - Local	Acute - Dermal	No hazard identified
Effects	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	Hazard identified but no DNEL available
	Acute - Oral	No hazard identified
	Acute - Inhalation	No hazard identified
General Population -	Acute - Dermal	No hazard identified
Systemic Effects	Chronic - Oral	2.5 mg/kg bw/day
	Chronic - Inhalation	8.8 mg/m³
	Chronic - Dermal	2.5 mg/kg bw/day
	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
General Population -	Acute - Dermal	No hazard identified
Local Effect	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	Hazard identified but no DNEL available

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

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

<b>3713</b> #1 102001 20 7	3A9 #1 102001 20 1		
	Acute - Oral	Not determined or not applicable.	
	Acute - Inhalation	Not determined or not applicable.	
Workers - Systemic	Acute - Dermal	No hazard identified	
Effects	Chronic - Oral	Not determined or not applicable.	
	Chronic - Inhalation	21 mg/m³	
	Chronic - Dermal	3 mg/kg bw/day	
	Acute - Oral	Not determined or not applicable.	
	Acute - Inhalation	Not determined or not applicable.	
Workers - Local	Acute - Dermal	Hazard identified but no DNEL available	
Effects	Chronic - Oral	Not determined or not applicable.	
	Chronic - Inhalation	Not determined or not applicable.	
	Chronic - Dermal	Hazard identified but no DNEL available	
	Acute - Oral	No hazard identified	
	Acute - Inhalation	Not determined or not applicable.	
General Population -	Acute - Dermal	No hazard identified	
Systemic Effects	Chronic - Oral	1.5 mg/kg bw/day	
	Chronic - Inhalation	5.2 mg/m³	
	Chronic - Dermal	1.5 mg/kg bw/day	

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)

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	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	Not determined or not applicable.
General Population -	Acute - Dermal	Hazard identified but no DNEL available
Local Effect	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	Not determined or not applicable.
	Chronic - Dermal	Hazard identified but no DNEL available

Ingredient Name: Urethane Dimethacrylate

CAS #: 72869-86-4

<b>.AS #:</b> /2869-86-4		
Workers - Systemic	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No exposure expected
	Acute - Dermal	No hazard identified
Effects	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	3.3 mg/m³
	Chronic - Dermal	1.3 mg/kg bw/day
	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No exposure expected
Workers - Local	Acute - Dermal	Hazard identified but no DNEL available
Effects	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No exposure expected
	Chronic - Dermal	Hazard identified but no DNEL available
	Acute - Oral	No hazard identified
	Acute - Inhalation	No exposure expected
General Population -	Acute - Dermal	No hazard identified
Systemic Effects	Chronic - Oral	0.3 mg/kg bw/day
	Chronic - Inhalation	0.6 mg/m³
	Chronic - Dermal	0.7 mg/kg bw/day
	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No exposure expected
General Population -	Acute - Dermal	No exposure expected
Local Effect	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No exposure expected
	Chronic - Dermal	Hazard identified but no DNEL available

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

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

CAS #: Trade Secret

<b>Environmental Protection Target</b>	PNEC
Fresh water	0.904 mg/L
Freshwater sediments	6.28 mg/kg
Marine water	0.904 mg/L
Marine sediments	6.28 mg/kg
Microorganisms in sewage treatment	10 mg/L
Soil (agricultural)	0.727 mg/kg
Air	No hazard identified

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

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CAS #: 162881-26-7

<b>Environmental Protection Target</b>	PNEC	
Fresh water	0.8 μg/L	
Freshwater sediments	0.712 mg/kg	
Marine water	0.8 μg/L	
Marine sediments	0.712 mg/kg	
Microorganisms in sewage treatment	Not determined or not available.	
Soil (agricultural)	0.012 mg/kg soil dw	
Air	No hazard identified	
Oral (Secondary Poisoning)	No exposure expected	

**Ingredient Name:** Urethane Dimethacrylate

CAS #: 72869-86-4

<b>Environmental Protection Target</b>	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

#### 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 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

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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

Appearance	Black Liquid
Odor	Characteristic acrylate
Odor threshold	Not determined or not available.
рН	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
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	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.
Vapor density	Not determined or not available.
Density	1.09 g/cm3 @ 25°C
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.
Dynamic viscosity	980 cps @ 25°C
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

# 9.2 Other information

None.

# SECTION 10: Stability and reactivity

# 10.1 Reactivity:

Not reactive under recommended handling and storage conditions.

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)

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#### 10.2 Chemical stability:

Stable under recommended handling and storage conditions.

# 10.3 Possibility of hazardous reactions:

Stable under recommended handling and storage conditions.

#### 10.4 Conditions to avoid:

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 toxicological effects

#### **Acute toxicity**

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

Product data: No data available.

**Substance data:** 

Name	Route	Result
Urethane Dimethacrylate	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rat: >2000 mg/kg
Methacrylate Monomer(s)	oral	LD50 Rat: >2000 mg/kg
	dermal	LD50 Rabbit: >5000 mg/kg
Phenyl bis(2,4,6- trimethylbenzoyl)-phosphine	oral	LD50 Rat: >2000 mg/kg
oxide	dermal	LD50 Rat: >2000 mg/kg

#### Skin corrosion/irritation

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

**Product data:**No data available.

**Substance data:** No data available.

# 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:**

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Name	Result
Urethane Dimethacrylate	May cause an allergic skin reaction.
Methacrylate Monomer(s)	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.

Product data: No data available.

Substance data: No data available.

# International Agency for Research on Cancer (IARC):

Name	Classification
Urethane Dimethacrylate	Not Applicable
Methacrylate Monomer(s)	Not Applicable
Phenyl bis(2,4,6- trimethylbenzoyl)-phosphine oxide	Not Applicable

**National Toxicology Program (NTP):** None of the ingredients are listed.

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.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

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)

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#### 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 Dimethacrylate	Fish LC50 Danio rerio: 10.1 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: > 1.2 mg/L (48 hr)
Phenyl bis(2,4,6- trimethylbenzoyl)-phosphine oxide	Aquatic Plants EC50 Green algae: >0.26 mg/L (72 hr [growth rate])
	Fish LC50 Freshwater fish: >0.09 mg/L (96 hr)
	Aquatic Invertebrates EC50 Not specified: >1.175 mg/L (48 hr [mobility])

# Chronic (long-term) toxicity

# **Assessment:**

Toxic to aquatic life with long lasting effects.

Product data: No data available.

#### Substance data:

Name	Result
Urethane Dimethacrylate	Aquatic Plants NOEC Desmodesmus subspicatus: 0.21 mg/L (72 hr)

# 12.2 Persistence and degradability

Product data: No data available.

#### **Substance data:**

Name	Result
Urethane Dimethacrylate	The substance is not readily biodegradable (22% degradation in 28 days).
Methacrylate Monomer(s)	Readily biodegradable (94% in 28 days).
	This substance is not readily biodegradable. No degradation was observed during 28 day test period.

# 12.3 Bioaccumulative potential

Product data: No data available.

#### Substance data:

Name	Result
Methacrylate Monomer(s)	Low potential to bioaccumulate (BCF: 3.2; Log kow: 1.21)
Phenyl bis(2,4,6- trimethylbenzoyl)-phosphine oxide	Bioaccumulation is not expected. BCF (aquatic species): 5 dimensionless

#### 12.4 Mobility in soil

Product data: No data available.

**Substance data:** 

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)

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Name	Result
Phenyl bis(2,4,6- trimethylbenzoyl)-phosphine oxide	Based upon the log Koc of 3.85 an adsorption to the soil is expected.
	The substance has moderate potential to adsorb to organic soil and sediment particles (log Koc: 3.66 dimensionless).

## 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 Dimethacrylate	This substance is not PBT.
Methacrylate Monomer(s)	This substance is not PBT.
Phenyl bis(2,4,6- trimethylbenzoyl)-phosphine oxide	This substance is not PBT.

# vPvB assessment:

Urethane Dimethacrylate	This substance is not vPvB.
Methacrylate Monomer(s)	This substance is not vPvB.
Phenyl bis(2,4,6- trimethylbenzoyl)-phosphine oxide	This substance is not vPvB.

# 12.6 Other adverse effects: No data available.

# 12.7 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:

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.

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:

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

# **SECTION 14: Transport information**

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

UN number	UN 3082
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Methacrylate Polymer

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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	UN 3082	
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Methacrylate Polymer	
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 Maritime Dangerous Goods (IMDG)**

UN number	UN 3082
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Methacrylate Polymer
UN transport hazard class(es)	9
Packing group	III
<b>Environmental hazards</b>	Marine Pollutant
Special precautions for user	None
	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	UN 3082
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Methacrylate Polymer
UN transport hazard class(es)	9
Packing group	III
<b>Environmental hazards</b>	Marine Pollutant
Special precautions for user	None

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)

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**Black Resin** 

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 5.0.2.4.1, 5.0.2.6.1 and 5.0.2.8.

Transport in bulk according to Annex II of MARPOL and the IBC Code	
Bulk Name	None
Ship type	None
Pollution category	None

# **SECTION 15: Regulatory information**

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

#### Inventory listing (EINECS):

72869-86-4	Urethane Dimethacrylate	Listed
Trade Secret	Methacrylate Monomer(s)	Listed
162881-26-7	- <b>, , , , ,</b>	Not Listed
162881-26-7	- , , , , , , , ,	Not Listed

**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.

Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
Urethane Dimethacrylate	72869-86-4	Water hazard class 1: slightly hazardous to water
Methacrylate Monomer(s)	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: 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:**

elassification procedure:		
Classification according to Regulation (EC) No. 1272/2008 (CLP)	Method Used	
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:

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)

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#### **Black Resin**

Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 2	Chronic aquatic hazard, category 2
Eye Irrit. 2	Eye Irritation, category 2
Aquatic Chronic 4	Chronic aquatic hazard, category 4
Skin Sens. 1A	Skin sensitization, category 1A

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

H317	May cause an allergic skin reaction
H411	Toxic to aquatic life with long lasting effects
H319	Causes serious eye 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 EC No. 1907/2006 (REACH). 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**