

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

1.1 Product identifier Product Name: BioMed Black Resin Product code: FLBMBL01

 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses: For uses in Formlabs SLA Printers Uses advised against: Not determined or not applicable. Reasons why uses advised against: Not determined or not applicable.

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

Manufacturer: United States Formlabs, Inc 35 Medford St Suite 201 Somerville, MA 02143 +1 617 855 0762 sds@formlabs.com Supplier: Germany Formlabs GmbH Nalepastr. 18 Berlin, . 12459 +49 30 555 795 880

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): 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: Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate 2-hydroxyethyl methacrylate Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate Additional Information: None

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP) Hazard pictograms:



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/eye protection/face protection/hearing 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 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/container 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: 41637-38-1 EC number: 609-946-4	-	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	Skin Sens. 1; H317 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3 (RI); H335 Aquatic Chronic 4; H413	<60
CAS number: 72869-86-4 EC number: 276-957-5	-	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate	Skin Sens. 1; H317 Aquatic Chronic 2; H411	<30
CAS number: 868-77-9 EC number: 212-782-2	-	2-hydroxyethyl methacrylate	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319	<10
CAS number: 84434-11-7 EC number: 282-810-6	-	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	<2
CAS number: 7631-86-9 EC number: 231-545-4	-	Silicon dioxide (amorphous)	Not classified	4-7

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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. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

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:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

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.

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, 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:**

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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.

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):

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Refer to Section 1 (Recommended Use).

SECTION 8: Exposure controls/personal protection

Occupational Exposure limit values:

8.1 Control parameters

Only those substances with limit values have been included below.

Country (Legal Basis) Substance Identifier Permissible concentration 868-77-9 Lithuania 2-hydroxyethyl methacrylate 8-Hour TWA: 20 mg/m³ Silicon dioxide (amorphous) 7631-86-9 TWA: 0.07 mg/m³ (Free silicon Bulgaria dioxide, amorphous, synthetic from condensation and electrothermal processes respirable fraction) TWA: 4 mg/m³ (Free silicon Silicon dioxide (amorphous) 7631-86-9 dioxide, amorphous and crystalline, from natural sedimentation [opal, chalcedony, etc], inhalable fraction) TWA: 10 mg/m³ (Free silicon Silicon dioxide (amorphous) 7631-86-9 dioxide, amorphous, synthetic from condensation and electrothermal processes, inhalable fraction) Silicon dioxide (amorphous) 7631-86-9 TWA: 1 ma/m³ (Free silicon dioxide, amorphous and crystalline, from natural sedimentation [opal, chalcedony, etc], respirable fraction) Croatia Silicon dioxide (amorphous) 7631-86-9 8-Hour TWA: 6 mg/m³ (total dust) Silicon dioxide (amorphous) 7631-86-9 8-Hour TWA: 2.4 mg/m³ (respirable dust) Silicon dioxide (amorphous) 7631-86-9 8-Hour TWA: 5 mg/m³ (Silicon Cyprus dioxide [amorphous] [particles > 5 micrometers]) 7631-86-9 8-Hour TWA: 2 mg/m³ (Silicon Silicon dioxide (amorphous) dioxide [amorphous] [particles < 5 micrometers]) Czech Republic Silicon dioxide (amorphous) 7631-86-9 8-Hour TWA: 4 mg/m³ (dust) 8-Hour TWA: 2 mg/m3 (fine dust -Estonia Silicon dioxide (amorphous) 7631-86-9 respirable fraction) 7631-86-9 8-Hour TWA: 1 mg/m³ Latvia Silicon dioxide (amorphous) Poland Silicon dioxide (amorphous) 7631-86-9 8-Hour TWA: 10 mg/m³ (inhalable fraction) Silicon dioxide (amorphous) 7631-86-9 8-Hour TWA: 2 mg/m³ (respirable fraction) Slovakia Silicon dioxide (amorphous) 7631-86-9 8-Hour TWA: 0.3 mg/m3 (Silica, amorphous (fused silica, fused silica, fumes, burnt diatomaceous earth) 8-Hour TWA: 4 mg/m3 (inhalable Slovenia Silicon dioxide (amorphous) 7631-86-9 fraction) Austria Silicon dioxide (amorphous) 7631-86-9 8-Hour TWA: 4 mg/m³ (inhalable) Belgium Silicon dioxide (amorphous) 7631-86-9 8-Hour TWA: 10 mg/m³ Finland Silicon dioxide (amorphous) 7631-86-9 8-Hour TWA: 5 mg/m³

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
Germany (TRGS 900)	Silicon dioxide (amorphous)	7631-86-9	8-Hour TWA: 4 mg/m ³ (inhalable)
Ireland	Silicon dioxide (amorphous)	7631-86-9	8-Hour TWA: 6 mg/m ³ (inhalable fraction)
	Silicon dioxide (amorphous)	7631-86-9	8-Hour TWA: 2.4 mg/m ³ (respirable fraction)
United Kingdom	Silicon dioxide (amorphous)	7631-86-9	TWA: 6 mg/m ³ (inhalable)
	Silicon dioxide (amorphous)	7631-86-9	TWA: 2.4 mg/m ³ (respirable)
Germany (MAK)	Silicon dioxide (amorphous)	7631-86-9	8-Hour TWA: 4 mg/m ³ (inhalable fraction)
	Silicon dioxide (amorphous)	7631-86-9	8-Hour TWA: 4 mg/m ³ (inhalable)
Denmark	Silicon dioxide (amorphous)	7631-86-9	8-Hour TWA: 2 mg/m ³ (inhalable)
	Silicon dioxide (amorphous)	7631-86-9	STEL: 4 mg/m ³ (inhalable)

Biological limit values:

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

Derived No Effect Level (DNEL):

Ingredient Name: Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid

CAS #: 41	637-38-1
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	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	3.52 mg/m ³
	Chronic - Dermal	2 mg/kg bw/day
	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	No hazard identified
	Acute - Oral	No hazard identified
	Acute - Inhalation	No hazard identified
General Population -	Acute - Dermal	No hazard identified
Systemic Effects	Chronic - Oral	0.5 mg/kg bw/day
	Chronic - Inhalation	0.87 mg/m³
	Chronic - Dermal	1 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	No hazard identified

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	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	4.9 mg/m ³
	Chronic - Dermal	1.3 mg/kg bw/day
	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	No hazard identified
	Acute - Oral	No hazard identified
	Acute - Inhalation	No hazard identified
General Population -	Acute - Dermal	No hazard identified
Systemic Effects	Chronic - Oral	0.83 mg/kg bw/day
	Chronic - Inhalation	2.9 mg/m ³
	Chronic - Dermal	0.83 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	No hazard identified

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

CAS #: 84434-11-7

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	5.88 mg/m ³
Chronic - Dermal	1.7 mg/kg bw/day
Acute - Oral	Not determined or not applicable.
Acute - Inhalation	No hazard identified
Acute - Dermal	Hazard identified but no DNEL available
Chronic - Oral	Not determined or not applicable.
Chronic - Inhalation	No hazard identified
Chronic - Dermal	Hazard identified but no DNEL available
	Acute - Inhalation Acute - Dermal Chronic - Oral Chronic - Inhalation Chronic - Dermal Acute - Oral Acute - Inhalation Acute - Dermal Chronic - Oral Chronic - Inhalation

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	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	Not determined or not applicable.
General Population -	Acute - Dermal	Not determined or not applicable.
Systemic Effects	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	Not determined or not applicable.
	Chronic - Dermal	Not determined or not applicable.
	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	Not determined or not applicable.
General Population -	Acute - Dermal	Not determined or not applicable.
Local Effect	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	Not determined or not applicable.
	Chronic - Dermal	Not determined or not applicable.

Ingredient Name: 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

CAS #: 72869-86-4

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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 ³
Chronic - Dermal	1.3 mg/kg bw/day
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
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/m³
Chronic - Dermal	0.7 mg/kg bw/day
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
	Acute - Inhalation Acute - Dermal Chronic - Oral Chronic - Inhalation Chronic - Dermal Acute - Oral Acute - Oral Acute - Inhalation Acute - Dermal Chronic - Dermal Acute - Oral Chronic - Dermal Acute - Oral Acute - Oral Chronic - Inhalation Acute - Dermal Chronic - Inhalation Chronic - Inhalation Chronic - Dermal Acute - Oral Chronic - Dermal Chronic - Dermal Chronic - Dermal Chronic - Oral Chronic - Oral Chronic - Oral

Ingredient Name: Silicon dioxide (amorphous) CAS #: 7631-86-9

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

Predicted No Effect Concentration (PNEC):

Ingredient Name: Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid

CAS #: 41637-38-1

Environmental Protection Target	PNEC
Fresh water	Not determined or not available.
Freshwater sediments	Not determined or not available.
Marine water	Not determined or not available.
Marine sediments	Not determined or not available.
Microorganisms in sewage treatment	Not determined or not available.
Soil (agricultural)	Not determined or not available.
Air	No hazard identified
Ingredient Name: 2-hydroxyethyl m	ethacrylate

CAS #: 868-77-9

Environmental Protection Target	PNEC
Fresh water	0.482 mg/L
Freshwater sediments	3.79 mg/kg
Marine water	0.482 mg/L
Marine sediments	3.79 mg/kg
Microorganisms in sewage treatment	10 mg/L

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Soil (agricultural)	0.476 mg/kg	
Air	No hazard identified	
Ingredient Name: Ethyl phenyl(2,4,6	5-trimethylbenzoyl)phosphinate	
CAS #: 84434-11-7		
Environmental Protection Target	PNEC	
Fresh water	0.001 mg/L	
Freshwater sediments	0.24 mg/kg	
Marine water	0 mg/L	
Marine sediments	0.024 mg/kg	
Microorganisms in sewage treatment	Not determined or not available.	
Soil (agricultural)	0.047 mg/kg	
Air	No hazard identified	
I ngredient Name: 7,7,9(or 7,9,9)-trir bismethacrylate CAS #: 72869-86-4	methyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl	
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	Na harayat idantifiad	
	No hazard identified	
Oral (Secondary Poisoning)	No nazaro identified No exposure expected	
	No exposure expected	
Oral (Secondary Poisoning) Ingredient Name: Silicon dioxide (ar	No exposure expected morphous)	
Oral (Secondary Poisoning) Ingredient Name: Silicon dioxide (ar CAS #: 7631-86-9	No exposure expected morphous)	
Oral (Secondary Poisoning) Ingredient Name: Silicon dioxide (ar CAS #: 7631-86-9 Environmental Protection Target	No exposure expected morphous) PNEC	
Oral (Secondary Poisoning) Ingredient Name: Silicon dioxide (ar CAS #: 7631-86-9 Environmental Protection Target Fresh water	No exposure expected morphous) PNEC No hazard identified	
Oral (Secondary Poisoning) Ingredient Name: Silicon dioxide (ar CAS #: 7631-86-9 Environmental Protection Target Fresh water Freshwater sediments	No exposure expected morphous) PNEC No hazard identified No hazard identified	
Oral (Secondary Poisoning) Ingredient Name: Silicon dioxide (ar CAS #: 7631-86-9 Environmental Protection Target Fresh water Freshwater sediments Marine water Marine sediments	No exposure expected morphous) PNEC No hazard identified No hazard identified No hazard identified No hazard identified	
Oral (Secondary Poisoning) Ingredient Name: Silicon dioxide (ar CAS #: 7631-86-9 Environmental Protection Target Fresh water Freshwater sediments Marine water	No exposure expected morphous) PNEC No hazard identified No hazard identified No hazard identified No hazard identified	
Oral (Secondary Poisoning) Ingredient Name: Silicon dioxide (ar CAS #: 7631-86-9 Environmental Protection Target Fresh water Freshwater sediments Marine water Marine sediments Microorganisms in sewage treatment	No exposure expected morphous) PNEC No hazard identified No hazard identified No hazard identified No hazard identified No hazard identified No hazard identified	

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:

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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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

Appearance	Black Opaque 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	1.13 g/cm3
Relative density	Not determined or not 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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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	950 cps @ 30°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.

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. Incompatible materials.

Avoid storage >38°C (100°F) and exposure to light/direct sunlight and heat.

10.5 Incompatible materials:

Strong oxidizing agents.

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
7,7,9(or 7,9,9)-trimethyl-4,13- dioxo-3,14-dioxa-5,12-	oral	LD50 Rat: >5000 mg/kg
diazahexadecane-1,16-diyl bismethacrylate	dermal	LD50 Rat: >2000 mg/kg
2-hydroxyethyl methacrylate	oral	LD50 Rat: 5564 mg/kg
Ethyl phenyl(2,4,6- trimethylbenzoyl)phosphinate	oral	LD50 Rat: >5000 mg/kg

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Name	Route	Result
Silicon dioxide (amorphous)	oral	LD50 Rat: > 5000 mg/kg
	dermal	LD50 Rabbit: > 2000 mg/kg
	inhalation	LC50 Rat: > 5.01 mg/L (4 h, dust)

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Skin corrosion/irritation

Assessment:

Causes skin irritation.

Product data:

No data available.

Substance data:

Name	Result
Esterification products of 4,4'- isopropylidenediphenol, ethoxylated and 2- methylprop-2-enoic acid	Causes skin irritation.
2-hydroxyethyl methacrylate	Causes skin irritation.

Serious eye damage/irritation

Assessment:

Causes serious eye irritation.

Product data:

No data available.

Substance data:

Name	Result
Esterification products of 4,4'- isopropylidenediphenol, ethoxylated and 2- methylprop-2-enoic acid	Cause serious eye irritation.
2-hydroxyethyl methacrylate	Causes serious eye irritation.

Respiratory or skin sensitization

Assessment:

May cause an allergic skin reaction.

Product data:

No data available.

Substance data:

Name	Result
Esterification products of 4,4'- isopropylidenediphenol, ethoxylated and 2- methylprop-2-enoic acid	May cause an allergic skin reaction.
7,7,9(or 7,9,9)-trimethyl-4,13- dioxo-3,14-dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate	May cause an allergic skin reaction.
2-hydroxyethyl methacrylate	May cause an allergic skin reaction.
Ethyl phenyl(2,4,6- trimethylbenzoyl)phosphinate	May cause an allergic skin reaction.

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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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
7,7,9(or 7,9,9)-trimethyl-4,13- dioxo-3,14-dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate	Not Applicable
Esterification products of 4,4'- isopropylidenediphenol, ethoxylated and 2- methylprop-2-enoic acid	Not Applicable
Silicon dioxide (amorphous)	Group 3

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:

May cause respiratory irritation.

Product data:

No data available.

Substance data:

Name	Result
Esterification products of 4,4'- isopropylidenediphenol, ethoxylated and 2- methylprop-2-enoic acid	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.

Information on likely routes of exposure:

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No data available. Symptoms related to the physical, chemical and toxicological characteristics: No data available. Other information: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met. **Product data:** No data available.

Substance data:

Name	Result
7,7,9(or 7,9,9)-trimethyl-4,13- dioxo-3,14-dioxa-5,12-	Fish LC50 Danio rerio: 10.1 mg/L (96 hr)
diazahexadecane-1,16-diyl bismethacrylate	Aquatic Invertebrates EC50 Daphnia magna: > 1.2 mg/L (48 hr)

Chronic (long-term) toxicity

Assessment:

Toxic to aquatic life with long lasting effects.

Product data: No data available.

Substance data:

Name	Result
7,7,9(or 7,9,9)-trimethyl-4,13- dioxo-3,14-dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate	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
7,7,9(or 7,9,9)-trimethyl-4,13- dioxo-3,14-dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate	The substance is not readily biodegradable (22% degradation in 28 days).
2-hydroxyethyl methacrylate	This substance is considered readily biodegradable.
Ethyl phenyl(2,4,6- trimethylbenzoyl)phosphinate	The substance is not readily biodegradable.
Esterification products of 4,4'- isopropylidenediphenol, ethoxylated and 2- methylprop-2-enoic acid	The substance is inherently biodegradable (>24% degradation in 28 days and >60% degradation in 60 days).

12.3 Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
2-hydroxyethyl methacrylate	This substance has low potential to bioaccumulate.

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
Ethyl phenyl(2,4,6- trimethylbenzoyl)phosphinate	This substance is not expected to bioaccumulate because of log Kow (2.91).
Esterification products of 4,4'- isopropylidenediphenol, ethoxylated and 2- methylprop-2-enoic acid	The substance is not expected to bioaccumulate (BCF: 7.9 L/Kg).
Silicon dioxide (amorphous)	BCF: 3.16 L/kg

12.4 Mobility in soil

Product data: No data available.

Substance data:

Name	Result
2-hydroxyethyl methacrylate	This substance has low potential to be adsorbed by the soil.
Ethyl phenyl(2,4,6- trimethylbenzoyl)phosphinate	This substance is expected to be adsorbed by the soil.
7,7,9(or 7,9,9)-trimethyl-4,13- dioxo-3,14-dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate	The substance has moderate potential to adsorb to organic soil and sediment particles (log Koc: 3.66 dimensionless).
Silicon dioxide (amorphous)	Mobile (log Koc: 1.337)

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:

7,7,9(or 7,9,9)- trimethyl-4,13-dioxo-3,14- dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate	This substance is not PBT.
2-hydroxyethyl methacrylate	This substance is not PBT.
Ethyl phenyl(2,4,6- trimethylbenzoyl)phosphinat e	This substance is not PBT.
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2- methylprop-2-enoic acid	The substance is not PBT.
Silicon dioxide (amorphous)	This substance is not PBT.
vPvB assessment:	
7,7,9(or 7,9,9)- trimethyl-4,13-dioxo-3,14- dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate	This substance is not vPvB.

2-hydroxyethyl methacrylate This substance is not vPvB.

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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Ethyl phenyl(2,4,6- trimethylbenzoyl)phosphinat e	This substance is not vPvB.
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2- methylprop-2-enoic acid	The substance is not vPvB.
Silicon dioxide (amorphous)	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:

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	UN 3082
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Methacrylate Polymer
UN transport hazard class(es)	9
Packing group	111
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

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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	
Environmental hazards	Marine Pollutant
Special precautions for user	None
Additional Information	This product is not regulated as a dangerous good when transported in sizes of $<5L$ or <5 kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8

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

UN number	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 \leq 5L or 5 \leq 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): 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.

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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REACH Restriction: None of the ingredients are listed.

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

Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2- methylprop-2-enoic acid	41637-38-1	Water hazard class 1: slightly hazardous to water
7,7,9(or 7,9,9)- trimethyl-4,13-dioxo-3,14- dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate	72869-86-4	Water hazard class 1: slightly hazardous to water
2-hydroxyethyl methacrylate	868-77-9	Water hazard class 1: slightly hazardous to water
Ethyl phenyl(2,4,6- trimethylbenzoyl)phosphinat e		Water hazard class 2: obviously hazardous to water
Silicon dioxide (amorphous)	7631-86-9	Non-hazardous to water

Other regulations

Germany TA Luft:

Ingredient Name	CAS	Class	Base Emission Rate	Max Concentration
Silicon dioxide (amorphous)	7631-86-9			

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 according t	o Regulation (EC) No. 1272/2008 (CLP)	Method Used			
Skin irritation, category 2		Calculation method			
Eye Irritation, category 2		Calculation method			
Skin sensitization, catego	ory 1	Calculation method			
Specific target organ tox respiratory tract irritatior	city - single exposure, category 3, 1	Calculation method			
Chronic aquatic hazard, o	category 2	Calculation method			
Summary of classificat	ion(s) in section 3:	·			
Skin Sens. 1	Skin sensitization, category 1	Skin sensitization, category 1			
Skin Irrit. 2	Skin irritation, category 2	Skin irritation, category 2			
Eye Irrit. 2	Eye Irritation, category 2	Eye Irritation, category 2			
STOT SE 3 (RI)	Specific target organ toxicity - sin tract irritation	Specific target organ toxicity - single exposure, category 3, respiratory tract irritation			
Aquatic Chronic 4	Chronic aquatic hazard, category	Chronic aquatic hazard, category 4			
Aquatic Chronic 2	Chronic aquatic hazard, category	Chronic aquatic hazard, category 2			
Skin Sens. 1B	Skin sensitization, category 1B	Skin sensitization, category 1B			

Summary of hazard statements 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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H317	May cause an allergic skin reaction	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
H413	May cause long lasting harmful effects to aquatic life	
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 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