



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

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Clear Resin

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

1.1 Product identifier

Product Name: Clear Resin **Product code:** FLGPCL04

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 Somery

Suite 201 Somerville, MA 02143 +1 617 855 0762

+1 617 855 0762 sds@formlabs.com Official distributor in Switzerland:
Artsupport GmbH

Glattalstrasse 222 CH-8153 Rümlang +41 (0)44 818 18 18 info@artsupport.ch

1.4 Emergency Telephone Number:

Switzerland

+41 (0)44 818 18 18

Mon - Fri 8 a.m. - 12 p.m. and 1 p.m. - 5:00 p.m.

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:

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate Methacrylic acid, monoester with propane-1,2-diol Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Additional Information: None

2.2 Label elements

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







Signal Word: Warning Hazard statements:

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

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H411 Toxic to aquatic life with long lasting effects

Precautionary statements:

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves, protective clothing and eye protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P272 Contaminated work clothing should not be allowed out of the workplace

P273 Avoid release to the environment

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 soap and 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 and container in accordance with local, regional, national, and international regulations.

2.3 Other hazards: None known

SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable.

3.2 Mixture:

Identification	EU REACH Registration No.	Name	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Weight %
CAS number: 72869-86-4 EC number: 276-957-5	-	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	55-75
CAS number: 27813-02-1 EC number: 248-666-3	-	Methacrylic acid, monoester with propane-1,2-diol	Skin Sens. 1; H317 Eye Irrit. 2; H319	15-25
CAS number: 75980-60-8 EC number: 278-355-8	-	Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	Repr. 2; H361 Aquatic Chronic 2; H411	<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:

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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 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.

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

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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:

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: Methacrylic acid, monoester with propane-1,2-diol

CAS #: 27813-02-1

	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
Workers - Systemic	Acute - Dermal	No hazard identified
Effects		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.
Workers - Local	Acute - Inhalation	No hazard identified
	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	2.5 mg/kg bw/day
	Chronic - Inhalation	4.35 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	No hazard identified

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

CA3 #1 /2009-00-4		
	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No exposure expected
Workers - Systemic	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 - Systemic Effects	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

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	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

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

CAS #: 75980-60-8

	Acute - Oral	Not determined or not applicable.
Workers - Systemic Effects	Acute - Inhalation	No hazard identified
		No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	0.822 mg/m ³
	Chronic - Dermal	0.233 mg/kg bw/day
	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
Workers - Local	Acute - Dermal	Hazard identified but no DNEL available
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	0.0833 mg/kg bw/day
	Chronic - Inhalation	0.145 mg/m³
	Chronic - Dermal	0.0833 mg/kg bw/day
	Acute - Oral	Not determined or not applicable.
General Population -	Acute - Inhalation	No hazard identified
	Acute - Dermal	Hazard identified but no DNEL available
Local Effect	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	Hazard identified but no DNEL available

Predicted No Effect Concentration (PNEC):

Ingredient Name: Methacrylic acid, monoester with propane-1,2-diol

CAS #: 27813-02-1

Environmental Protection Target	PNEC
Fresh water	0.904 mg/L
Freshwater sediments	6.28 mg/kg
Marine water	0.09 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

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Oral (Secondary Poisoning) No exposure expected

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

#1 72003 00 F		
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: Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

CAS #: 75980-60-8

Environmental Protection Target	PNEC
Fresh water	1.4 μg/L
Freshwater sediments	0.115 mg/kg sediment dw
Marine water	0.14 μg/L
Marine sediments	0.0115 mg/kg sediment dw
Microorganisms in sewage treatment	No hazard identified
Soil (agricultural)	0.0222 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

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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

Light yellow liquid
Not determined or not available.
Characteristic acrylate
Not determined or not available.
Not determined or not available.
>100°C
>93.5°C
Not Flammable
Not determined or not available.
1.09 g/cm3
Not determined or not available.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosives	No data available
Flammable gases	No data available

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Aerosols	No data available
Oxidizing gases	No data available
Gases under pressure	No data available
Flammable liquids	No data available
Flammable solids	No data available
Self-reactive substances and mixtures	No data available
Pyrophoric liquids	No data available
Pyrophoric solids	No data available
Self-heating substances and mixtures	No data available
Substances and mixtures, which emit flammable gases in contact with water	No data available
Oxidizing liquids	No data available
Oxidizing solids	No data available
Organic peroxides	No data available
Corrosive to metals	No data available
Desensitized explosives	No data available

9.2.2 Other safety characteristics

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.

10.5 Incompatible materials:

None known.

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:

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

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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
Methacrylic acid, monoester with propane-1,2-diol	oral	LD50 Rat: >=2000 mg/kg
	dermal	LD50 Rabbit: >5000 mg/kg
Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	oral	LD50 Rat: >5000 mg/kg
	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:
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Name	Result
Methacrylic acid, monoester with propane-1,2-diol	Causes serious eye irritation.

Respiratory or skin sensitization

Assessment:

May cause an allergic skin reaction.

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-diylbismethacrylate	May cause an allergic skin reaction.
Methacrylic acid, monoester with propane-1,2-diol	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):

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

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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
Methacrylic acid, monoester with propane-1,2-diol	Not Applicable
Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	Not Applicable

Germ cell mutagenicity

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

Product data: No data available.

Substance data: No data available.

Reproductive Toxicity

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

Product data: No data available. Substance data:

Result
Suspected of damaging fertility.

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.

11.2 Information on other hazards

Endocrine disrupting properties:

Substance data: No data available.

Other information:

No data available.

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SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

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

Product data: No data available.

Substance data:

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Name	Result	
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diylbismethacrylate	Fish LC50 Danio rerio: 10.1 mg/L (96 hr)	
	Aquatic Invertebrates EC50 Daphnia magna: > 1.2 mg/L (48 hr)	
Methacrylic acid, monoester with propane-1,2-diol	Aquatic Plants EC50 Pseudokirchneriella subcapitata: >97.2 mg/L (72 hr [growth rate])	
	Fish LC50 Psetta maxima: 833 mg/L (96 hr)	
	Aquatic Invertebrates EC50 Daphnia magna: >143 mg/L (48 hr [mobility])	
Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	Fish LC50 Cyprinus carpio: 1.4 mg/L (96 h [mortality])	
	Aquatic Invertebrates EC50 Daphnia magna: 3.53 mg/L (48 h)	

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-diylbismethacrylate	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).
Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	This substance is not readily biodegradable (0% degradation in 28 days, measured by O2 consumption).
Methacrylic acid, monoester with propane-1,2-diol	The substance is readily biodegradable. 81% degradation in water, measured by BOD, after 28 days.

12.3 Bioaccumulative potential

Product data: No data available.

Substance data:

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Name	Result
Methacrylic acid, monoester with propane-1,2-diol	Low potential to bioaccumulate (BCF: 3.2; Log kow: 1.21)
	Based on the measured BCF value of 72, a significant bioaccumulation potential is not to be expected.

12.4 Mobility in soil

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 has moderate potential to adsorb to organic soil and sediment particles (log Koc: 3.66 dimensionless).
Methacrylic acid, monoester with propane-1,2-diol	The substance has a low potential for adsorption to soil or sediments based on high water solubility, a low vapor pressure (0.11 hPa @ 20 deg C), and low log Kow (0.97).

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.
Methacrylic acid, monoester with propane-1,2-diol	The substance is not PBT.
Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	The 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.
Methacrylic acid, monoester with propane-1,2-diol	The substance is not vPvB.
Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	The substance is not vPvB.

12.6 Endocrine disrupting properties

Substance data: No data available.

12.7 Other adverse effects: No data available.

12.8 Hazard to the ozone layer

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

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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	UN3082
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 a single unit is transported in container sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet 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	Environmentally hazardous liquid, N.O.S Urethane dimethacrylate
UN proper shipping name	Not regulated
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 a single unit is transported in container sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

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

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International Maritime Dangerous Goods (IMDG)

UN number or ID number	UN3082
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 a single unit is transported in container sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

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

UN number or ID number	UN3082
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 $\leq 5L$ or $5\leq kg$ provided the packaging meets the general provisions of $5.0.2.4.1$, $5.0.2.6.1$ and $5.0.2.8$.

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:

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

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72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	Not Listed
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	Not Listed
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Listed

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

Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
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
Methacrylic acid, monoester with propane-1,2-diol	27813-02-1	Water hazard class 1: slightly hazardous to water
Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	75980-60-8	Water hazard class 2: obviously hazardous to water

Other regulations

Germany TA Luft: None of the ingredients are listed.

Additional information: Not determined.

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Abbreviations and Acronyms: None

Classification procedure:

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

Summary of classification(s) in section 3:

Skin Sens. 1	Skin sensitization, category 1	
Aquatic Chronic 2	Chronic aquatic hazard, category 2	
Eye Irrit. 2	Eye Irritation, category 2	
Repr. 2	Reproductive toxicity, category 2	

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
	Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

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

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

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(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