

### **Manufacturer:**

Dymax

### **Product Name:**

Dymax OP-61 High Viscosity Optical Adhesive, Tan Gray Gel, UV Cure - 3ml Syringe

### **Manufacturer Part Number:**

OP-61-3ML

Click here for more details on the Dymax OP-61 High Viscosity Optical Adhesive, Tan Gray Gel, UV Cure - 3ml Syringe



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1272/2008 and Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878

#### **OP-61**

Issuing Date 28-Apr-2023

Revision date 28-Apr-2023

Revision Number 32

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

1.1. Product identifier

**Product Name** 

**OP-61** 

Pure substance/mixture

Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use

Adhesives and/or sealants.

Uses advised against

Consumer use.

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer Dymax Corporation 318 Industrial Lane Torrington, CT 06790 Tel: 860-482-1010 Fax: 860-496-0608 Manufacturing sites Dymax Asia Pacific Pte Ltd. Block 5008 (East Wing) Ang Mo Kio Ave. 5 #05-3 TECHplace II Singapore 569874 Tel: +65-6752-2887 Fax: +66-6752-2813

Dymax Asia Pacific Pte Ltd. Block 5008 (East Wing) Ang Mo Kio Ave. 5 #05-3 TECHplace II

Singapore 569874 Tel: +65-6752-2887 Fax: +65-6752-2813

Supplier

For further information, please contact

E-mail address

Product\_Regulatory\_Europe@dymax.com

1.4. Emergency telephone number

**Emergency Telephone** 

Chemtrec @ 001-703-741-5970 (24hrs)

Austria +(43)-13649237	Belgium +(32)-28083237	Bulgaria +(359)-32570104
Croatia +(385)-17776920	Czech Republic +(420)-228880039	Denmark +(45)-69918573
Estonia +(372)-6681294	Finland +(358)-942419014	France +(33)-975181407
Germany 0800-181-7059	Greece +(30)-2111768478	Hungary +(36)-18088425
Ireland +(353)-19014670	Italy 800-789-767	Latvia +(371)-66165504
Lithuania +(370)-52140238	Luxembourg +(352)-20202416	Netherlands +(31)-858880596
Norway +(47)-21930678	Poland +(48)-223988029	Portugal +(351)-308801773
Romania (+40)-37-6300026	Slovakia +(423)-233057972	Slovenia +(386)-18888016
Spain 900-868538	Sweden +(46)-852503403	United Kingdom +(44)-870-8200418
Israel +(972)-37630639	Russia 8-800-100-6346	Saudi Arabia +(966)-8111095861
Switzerland +(41)-435082011	Turkey +(90)-212-7055340	Ukraine +(380)-947101374

### **SECTION 2: Hazards identification**

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2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1A - (H317)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Category 3 - Respiratory irritation	

#### 2.2. Label elements



#### Signal word - Warning

Contains Acrylic Acid, Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-, Isobornyl Acrylate, 2-Hydroxyethyl methacrylate

#### Hazard statements

H315 - Causes skin irritation H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

 $EUH208 - Contains \ 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1, 3-propaned iyl diacrylate; \ 2, 2-bis(acryloyloxymethyl)butyl acrylate; \ 2, 2-bis(acryloxymethyl)butyl acrylate; \$ trimethylolpropane triacrylate, 3-Methacryloxypropyltrimethoxysilane May produce an allergic reaction.

### Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling

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

2.3. Other hazards
No information available.

### **Product Information**

Testing for acute and chronic aquatic effects determined no environmental classification is required. OECD Test No. 202: Daphnia sp., Acute Immobilization Test,

#### PBT and vPvB assessment

The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

#### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

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Data is subject to change without notice.

### Contact the professionals at Fiber Optic Center for a quote or to get more details.



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Chemical name	CAS No	No)	REACH registration number	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Isobornyl Acrylate	5888-33-5	(607-756-00-6) 227-561-6	01-2119957862-25- 0011	10-24	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
2-Hydroxyethyl methacrylate	868-77-9	(607-124-00-X) 212-782-2	01-2119490169-29- 0022	10-24	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)
Acrylic Acid	79-10-7	(607-061-00-8) 201-177-9		1-<3	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1A (H314) Aquatic Acute 1 (H400) Flam. Liq. 3 (H226)
Benzene, (1-methylethenyl)-, homopolymer, ar-(2-hydroxy-2-met hyl-1-oxopropyl) derivs.	163702-01-0	402-990-3	-	1-<3	Repr. 2 (H361f)
2-ethyl-2-[[(1-oxoallyl)oxy] methyl]-1,3-propanediyl diacrylate; 2,2-bis(acryloyloxymethyl) butyl acrylate; trimethylolpropane triacrylate	15625-89-5	(607-111-00-9) 239-701-3	01-2119489896-11- XXXX	<1	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)
3-Methacryloxypropyltrimet hoxysilane	2530-85-0	219-785-8	-	<1	Skin Sens. 1 (H317)
Phosphine oxide, phenylbis(2,4,6-trimethylbe nzoyl)-	162881-26-7	(015-189-00-5) 423-340-5		<1	Skin Sens. 1A (H317) Aquatic Chronic 4 (H413)

Chemical name	CAS No	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Acrylic Acid	79-10-7	STOT SE 3 :: C>=1%		
2-ethyl-2-[[(1-oxoallyl)oxy]methy  ]-1,3-propanediyl diacrylate; 2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5		1	

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

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Revision date 28-Apr-2023

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg		Inhalation LC50 - 4 hour = vapor = mg/L	
Isobornyl Acrylate	4890	3000			
2-Hydroxyethyl methacrylate	5050	3000			
Acrylic Acid	193	2000	3.6 2.775		
Benzene, (1-methylethenyl)-, homopolymer, ar-(2-hydroxy-2-met hyl-1-oxopropyl) derivs.		2000			
2-ethyl-2-[[(1-oxoallyl)oxy] methyl]-1,3-propanediyl diacrylate; 2,2-bis(acryloyloxymethyl) butyl acrylate; trimethylolpropane triacrylate	5190	5000		77	
3-Methacryloxypropyltrimet hoxysilane	23500	2000			
Phosphine oxide, phenylbis(2,4,6-trimethylbe nzoyl)-	2000	2000			

#### Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical

attention immediately if symptoms occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a

physician. Wash off immediately with soap and plenty of water for at least 15 minutes.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

4.2. Most important symptoms and effects, both acute and delayed

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Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

### **SECTION 5: Firefighting measures**

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak

Other information Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

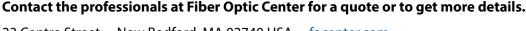
Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation.

Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. General hygiene considerations

7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container tightly

closed in a dry and well-ventilated place. Protect from light.

Storage class (TRGS 510) Storage class 10.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Acrylic Acid	STEL: 59 mg/m <sup>3</sup>	TWA: 10 ppm	TWA: 2 ppm	STEL: 59 mg/m <sup>3</sup>	TWA: 10 ppm
79-10-7	STEL: 20 ppm	TWA: 29 mg/m <sup>3</sup>	TWA: 6.0 mg/m <sup>3</sup>	STEL: 20 ppm	TWA: 29 mg/m <sup>3</sup>
	TWA: 29 mg/m <sup>3</sup>	STEL 20 ppm	STEL: 20 ppm	TWA: 29 mg/m <sup>3</sup>	STEL: 20 ppm
	TWA: 10 ppm	STEL 59 mg/m <sup>3</sup>	STEL: 59 mg/m <sup>3</sup>	TWA: 10 ppm	STEL: 59 mg/m <sup>3</sup>
			*		
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Acrylic Acid	STEL: 59 mg/m <sup>3</sup>	TWA: 30 mg/m <sup>3</sup>	TWA: 2 ppm	TWA: 10 ppm	TWA: 2 ppm
79-10-7	STEL: 20 ppm	Ceiling: 60 mg/m <sup>3</sup>	TWA: 5.9 mg/m <sup>3</sup>	TWA: 29 mg/m <sup>3</sup>	TWA: 6 mg/m <sup>3</sup>
	TWA: 29 mg/m <sup>3</sup>		H*	STEL: 20 ppm	Ceiling: 15 ppm
	TWA: 10 ppm		STEL: 20 ppm 1	STEL: 59 mg/m <sup>3</sup>	Ceiling: 45 mg/m <sup>3</sup>
			minute		
			STEL: 59 mg/m <sup>3</sup> 1		
			minute		
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Isobornyl Acrylate	-	-	skin sensitizer	-	-
5888-33-5					
2-Hydroxyethyl	-	-	skin sensitizer	-	-
methacrylate					
868-77-9					
Acrylic Acid	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA: 29 mg/m <sup>3</sup>
79-10-7	TWA: 29 mg/m <sup>3</sup>	TWA: 30 mg/m <sup>3</sup>	TWA: 30 mg/m <sup>3</sup>	TWA: 29 mg/m <sup>3</sup>	STEL: 59 mg/m <sup>3</sup>
	STEL: 20 ppm		Peak: 10 ppm	STEL: 20 ppm	
	STEL: 59 mg/m <sup>3</sup>		Peak: 30 mg/m <sup>3</sup>	STEL: 59 mg/m <sup>3</sup>	
2-ethyl-2-[[(1-oxoallyl)oxy	-	-	skin sensitizer		-
]methyl]-1,3-propanediyl					

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diacrylate; 2,2-bis(acryloyloxymethyl )butyl acrylate; trimethylolpropane triacrylate 15625-89-5	1				
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
2-Hydroxyethyl methacrylate 868-77-9	1	-	-	-	Sensitizer TWA: 20 mg/m <sup>3</sup>
Acrylic Acid 79-10-7	TWA: 10 ppm TWA: 29 mg/m³ STEL: 20 ppm STEL: 59 mg/m³	TWA: 29 ppm TWA: 10 mg/m³ STEL: 59 ppm STEL: 20 mg/m³ pelle*	TWA: 2 ppm TWA: 6 mg/m <sup>3</sup> *	TWA: 5 mg/m <sup>3</sup> TWA: 1.7 ppm STEL: 59 mg/m <sup>3</sup> STEL: 20 ppm	TWA: 10 ppm TWA: 29 mg/m³ Ceiling: 59 mg/m³ Ceiling: 20 ppm
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
2-Hydroxyethyl methacrylate 868-77-9		-	-	TWA: 2 ppm TWA: 11 mg/m <sup>3</sup> STEL: 4 ppm STEL: 16.5 mg/m <sup>3</sup>	
Acrylic Acid 79-10-7	STEL: 59 mg/m <sup>3</sup> STEL: 20 ppm TWA: 29 mg/m <sup>3</sup> TWA: 10 ppm	STEL: 20 ppm STEL: 59 mg/m <sup>3</sup> TWA: 10 ppm TWA: 29 mg/m <sup>3</sup>	TWA: 29 mg/m <sup>3</sup> STEL: 59 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>	STEL: 29.5 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Acrylic Acid 79-10-7	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 59 mg/m <sup>3</sup> STEL: 20 ppm P*	TWA: 10 ppm TWA: 29 mg/m³ STEL: 20 ppm STEL: 59 mg/m³	TWA: 10 ppm TWA: 29 mg/m³ Ceiling: 59 mg/m³	TWA: 29 mg/m <sup>3</sup> TWA: 10 ppm STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 29 mg/m³ STEL: 20 ppm STEL: 59 mg/m³ vía dérmica*
Chemical name	Sweden	Switzerland	United Kingdom		
Acrylic Acid 79-10-7	NGV: 10 ppm NGV: 29 mg/m³ Bindande KGV: 20 ppm Bindande KGV: 59 mg/m³	TWA: 10 ppm TWA: 29 mg/m³ STEL: 20 ppm STEL: 59 mg/m³	TWA: 10 ppm TWA: 29 mg/m³ STEL: 20 ppm STEL: 59 mg/m³		

#### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

No information available

Derived No Effect Level (DNEL) - General Public

No information available.

Predicted No Effect Concentration (PNEC)
No information available.

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8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

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Eye/face protection Wear safety glasses with side shields (or goggles). Hand protection Wear suitable gloves. Nitrile rubber, Butyl rubber.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Avoid contact with skin, eyes or clothing.

Environmental exposure controls No information available.

#### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical state

Liquid Appearance translucent Color gray Characteristic. Odor Odor threshold No information available

Property Values Remarks • Method Melting point / freezing point Boiling point / boiling range No data available None known No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

No data available Upper flammability or explosive Lower flammability or explosive No data available

limits Flash point 101 - °C

Pensky-Martens Closed Cup (PMCC) Autoignition temperature 438 °C None known

Decomposition temperature None known No data available рΗ None known pH (as aqueous solution) No data available None known Kinematic viscosity No data available None known Dynamic viscosity Water solubility 160,000 cP None known No data available None known Solubility(ies) No data available None known Partition coefficient No data available None known Vapor pressure No data available None known

No data available Relative density **Bulk density** No data available **Liquid Density** No data available No data available

Relative vapor density Particle characteristics Particle Size No information available **Particle Size Distribution** No information available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not applicable

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None known

None known





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9.2.2. Other safety characteristics

No information available

#### SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

**Product Information** 

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

Skin contact May cause sensitization by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Acute toxicity

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Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 13,026.30 mg/kg
ATEmix (dermal) 14,216.80 mg/kg
ATEmix (inhalation-dust/mist) 198.20 mg/l

Component Information

Component Information			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isobornyl Acrylate	= 4890 mg/kg (Rat)	> 3000 mg/kg(Rabbit)	-
2-Hydroxyethyl methacrylate	= 5050 mg/kg (Rat)	> 3000 mg/kg ( Rabbit )	·
Acrylic Acid	= 193 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	= 11.1 mg/L ( Rat ) 1 h = 3.6 mg/L ( Rat ) 4 h
Benzene, (1-methylethenyl)-, homopolymer, ar-(2-hydroxy-2-methyl- 1-oxopropyl) derivs.		= 2000 mg/kg(Rat)	
2-ethyl-2-[[(1-oxoallyl)oxy]methy l]-1,3-propanediyl diacrylate; 2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	= 5190 mg/kg(Rat)	= 5000 mg/kg ( Rabbit )	
3-Methacryloxypropyltrimethoxy silane	= 23.5 g/kg (Rat)	> 2000 mg/kg (Rat)	> 2.28 mg/L (Rat)6 h
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl )-	> 2000 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation. May cause skin

irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** May cause an allergic skin reaction.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate; 2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	Carc. 2

Reproductive toxicity No information available.

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STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

#### **Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isobornyl Acrylate	ErC 50 = 2.7 mg/L 96h (Pseudokirchneriella subcapitata)	LC50: =0.704mg/L 96h (Danio rerio)		EC 50 = 1.1 mg/L 48 h (Daphnia magna)
2-Hydroxyethyl methacrylate	-	LC50: 213 - 242mg/L (96h, Pimephales promelas) LC50: =227mg/L (96h, Pimephales promelas)		EC50 > 380 mg/l 48 h (Daphnia magna)
Acrylic Acid	EC50: =0.04mg/L (72h, Desmodesmus subspicatus) EC50: =0.17mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =222mg/L (96h, Brachydanio rerio) NOEC: >= 10.1mg/L (45d, Oryzias latipes, OECD 210)		EC50:=95mg/L (48h, Daphnia magna) NOEC: =3.8mg/L (21d, Daphnia magna)
3-Methacryloxypropyltrim ethoxysilane	EC50 > 536,00 mg/l 72 h (Scenedesmus subspicatus)	LC50: >100mg/L (96h Danio rerio)		EC50 > 876,00 mg/l 48 h (Daphnia magna)
Phosphine oxide, phenylbis(2,4,6-trimethyl benzoyl)-	-	LC50: >90µg/L (96h, Danio rerio)	-	-

### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

**Component Information** 

Chemical name	Partition coefficient
Isobornyl Acrylate	4.52
2-Hydroxyethyl methacrylate	0.42
Acrylic Acid	0.46

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Benzene, (1-methylethenyl)-, homopolymer, ar-(2-hydroxy-2-methyl-1-oxopropyl) derivs.	4.53
ai-(z-iiydioxy-z-iiietiiyi- i-oxopiopyi) deiivs.	
2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate;	0.67
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane	
triacrylate	
3-Methacryloxypropyltrimethoxysilane	2.1
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	5.8

#### 12.4. Mobility in soil

Mobility in soil No information available.

#### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

The product does not contain any substance(s) classified as PBT or vPvB above the

threshold of declaration.

Chemical name	PBT and vPvB assessment		
Isobornyl Acrylate	The substance is not PBT / vPvB		
2-Hydroxyethyl methacrylate	The substance is not PBT / vPvB		
Acrylic Acid	The substance is not PBT / vPvB		
Benzene, (1-methylethenyl)-, homopolymer,	The substance is not PBT / vPvB		
ar-(2-hydroxy-2-methyl-1-oxopropyl) derivs.			
2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate;	The substance is not PBT / vPvB		
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate			
3-Methacryloxypropyltrimethoxysilane	The substance is not PBT / vPvB		
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	The substance is not PBT / vPvB		

#### 12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

# 12.7. Other adverse effects No information available.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste from residues/unused products

Dispose of waste in accordance with environmental legislation. Dispose of in accordance

with local regulations.

Contaminated packaging Do not reuse empty containers.

### SECTION 14: Transport information

14.1 UN number or ID number Not regulated 14.2 Extended Proper Shipping Not regulated Name

14.3 Transport hazard class(es) 14.4 Packing group

Not regulated Not regulated 14.5 Environmental hazards Not applicable

14.6 Special precautions for user Special Provisions

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14.1 UN number or ID number 14.2 Extended Proper Shipping

Name 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special precautions for user **Special Provisions** 14.7 Maritime transport in bulk

according to IMO instruments

No information available

Not regulated

Not regulated

Not regulated

Not regulated Not applicable

Not regulated

Not regulated

IMDG

14.1 UN number or ID number 14.2 Extended Proper Shipping Name

14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards

14.6 Special precautions for user Special Provisions

None

ADR 14.1 UN number or ID number 14.2 Extended Proper Shipping Name 14.3 Transport hazard class(es)

14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions Not regulated Not regulated

Not regulated Not regulated Not applicable

### SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
2-Hydroxyethyl methacrylate - 868-77-9	RG 65

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1) Classification according to AwSV.

**European Union** 

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorization per
	Annex XVII	REACH Annex XIV

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Data is subject to change without notice.

# Contact the professionals at Fiber Optic Center for a quote or to get more details.



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2-Hydroxyethyl methacrylate - 868-77-9	75.		-
Acrylic Acid - 79-10-7	75.		-
2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl	75.	7	-
diacrylate; 2,2-bis(acryloyloxymethyl)butyl acrylate;			
trimethylolpropane triacrylate - 15625-89-5			
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	75.		<del>-</del>
- 162881-26-7			

#### Persistent Organic Pollutants

Not applicable

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

**TSCA** Complies DSL/NDSL Complies **EINECS/ELINCS** Complies **ENCS** Complies

Simplified Notification **IECSC** 

KECL Complies PICCS Not Listed AIIC Not Listed NZIoC Not Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIICS - Australian Industrial Chemicals Introduction Scheme

NZIoC - New Zealand Inventory of Chemicals

### 15.2. Chemical safety assessment

**Chemical Safety Report** No information available

### **SECTION 16: Other information**

Key or legend to abbreviations and acronyms used in the safety data sheet

Contact the professionals at Fiber Optic Center for a quote or to get more details.

### Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapor H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

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H361f - Suspected of damaging fertility

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H413 - May cause long lasting harmful effects to aquatic life

Sensitizers

SVHC: Substances of Very High Concern for Authorization: PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA (time-weighted average) STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Skin designation

Classification procedure Classification according to Regulation (EC) No. 1272/2008 [CLP] Method Used Acute oral toxicity Calculation method Acute dermal toxicity Calculation method Acute inhalation toxicity - gas Calculation method Acute inhalation toxicity - vapor Calculation method Acute inhalation toxicity - dust/mist Calculation method Skin corrosion/irritation Calculation method Serious eye damage/eye irritation Calculation method Respiratory sensitization Calculation method Skin sensitization Calculation method Mutagenicity Calculation method Carcinogenicity Calculation method Reproductive toxicity Calculation method alculation method TOT - single exposure STOT - repeated exposure Calculation method Acute aquatic toxicity On basis of test data Chronic aquatic toxicity On basis of test data Calculation method Aspiration hazard Calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

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World Health Organization

Revision date 28-Apr-2023

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release 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 or in any process, unless specified in the text.

End of Safety Data Sheet



