

# SAFETY DATA SHEET (SDS)



**Manufacturer:**  
Dymax®

**Product Name:**  
Dymax OP-54 UV Optical Adhesive (3ml)

**Manufacturer Part Number:**  
OP-54-3ML

▶ [Click here for more details on the Dymax OP-54 UV Optical Adhesive \(3ml\)](#)



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-54

Issuing Date 27-Apr-2023

Revision date 27-Apr-2023

Revision Number 2

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

#### 1.1. Product identifier

**Product Name** OP-54

**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: +65-6752-2813

##### Supplier

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

#### 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)

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

### SECTION 2: Hazards identification

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

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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 1 - (H318)
Skin sensitization	Category 1B - (H317)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Category 3 - Respiratory irritation	

## 2.2. Label elements



Signal word - Danger

Contains Isobornyl Acrylate, 2-Hydroxyethyl methacrylate, Acrylic Acid, 3-Methacryloxypropyltrimethoxysilane

### Hazard statements

H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation

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

P264 - Wash face, hands and any exposed skin thoroughly after handling  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor  
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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Chemical name	CAS No	EC No (EU Index 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	25-39	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
N,N-Dimethylacrylamide	2680-03-7	220-237-5	01-2119971262-39-0007	10-24	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Eye Dam. 1 (H318)
2-Hydroxyethyl methacrylate	868-77-9	(607-124-00-X) 212-782-2	01-2119490169-29-0022	5-9	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)
N-[3-(Dimethylamino)propyl] methacrylamide	5205-93-6	226-002-3	-	3-<5	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Eye Dam. 1 (H318)
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) Skin Sens. 1 (H317)
3-Methacryloxypropyltrimethoxysilane	2530-85-0	219-785-8	-	1-<3	Skin Sens. 1 (H317)

Chemical name	CAS No	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Acrylic Acid	79-10-7	STOT SE 3 :: C>=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

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Isobornyl Acrylate	4890	3000			
N,N-Dimethylacrylamide	316				
2-Hydroxyethyl methacrylate	5050	3000			
N-[3-(Dimethylamino)propyl] methacrylamide	3334	2355			
Acrylic Acid	193	2000	3.6 2.775		
3-Methacryloxypropyltrimethoxysilane	23500	2000			

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

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention.
<b>Eye contact</b>	Get immediate medical attention. 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.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
<b>Self-protection of the first aider</b>	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

**Symptoms** Burning sensation. Itching. Rashes. Hives.

### 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

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

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

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precautions for fire-fighters 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. Use personal protective equipment as required. Ensure adequate ventilation. 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.

**For emergency responders** Use personal protection recommended in Section 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

### 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. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. 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. Protect from light.

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

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. 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.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
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	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL 20 ppm STEL 59 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 6.0 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup> *	STEL: 59 mg/m <sup>3</sup> STEL: 20 ppm TWA: 29 mg/m <sup>3</sup> TWA: 10 ppm	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
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	TWA: 30 mg/m <sup>3</sup> Ceiling: 60 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 5.9 mg/m <sup>3</sup> H* STEL: 20 ppm 1 minute STEL: 59 mg/m <sup>3</sup> 1 minute	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 6 mg/m <sup>3</sup> Ceiling: 15 ppm Ceiling: 45 mg/m <sup>3</sup>
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Isobornyl Acrylate 5888-33-5	-	-	skin sensitizer	-	-
2-Hydroxyethyl methacrylate 868-77-9	-	-	skin sensitizer	-	-
Acrylic Acid 79-10-7	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 30 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 30 mg/m <sup>3</sup> Peak: 10 ppm Peak: 30 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>	TWA: 29 mg/m <sup>3</sup> STEL: 59 mg/m <sup>3</sup>
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
2-Hydroxyethyl methacrylate 868-77-9	-	-	-	-	Sensitizer TWA: 20 mg/m <sup>3</sup>
Acrylic Acid 79-10-7	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>	TWA: 29 ppm TWA: 10 mg/m <sup>3</sup> STEL: 59 ppm STEL: 20 mg/m <sup>3</sup> 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/m <sup>3</sup> Ceiling: 59 mg/m <sup>3</sup> 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/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> Ceiling: 59 mg/m <sup>3</sup>	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> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup> via dérmica*
Chemical name	Sweden	Switzerland	United Kingdom		
Acrylic Acid 79-10-7	NGV: 10 ppm NGV: 29 mg/m <sup>3</sup> Bindande KGV: 20	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm		

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	ppm Bindande KGV: 59 mg/m <sup>3</sup>	STEL: 59 mg/m <sup>3</sup>	STEL: 59 mg/m <sup>3</sup>		
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**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.

**8.2. Exposure controls**

**Engineering controls** No information available.

**Personal protective equipment**

**Eye/face protection** Tight sealing safety 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** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

**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** transparent  
**Color** colorless light yellow to  
**Odor** Characteristic.  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	

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Lower flammability or explosive limits	No data available	
Flash point	101 - °C	Pensky-Martens Closed Cup (PMCC)
Autoignition temperature	421 °C	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	105 cP	None known
Water solubility	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
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	No data available	None known
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

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.

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## 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

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.
<b>Ingestion</b>	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** Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.

#### Acute toxicity

##### Numerical measures of toxicity

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

ATEmix (oral)	2,103.10 mg/kg
ATEmix (dermal)	3,948.40 mg/kg
ATEmix (inhalation-dust/mist)	102.40 mg/l

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isobornyl Acrylate	= 4890 mg/kg ( Rat )	> 3000 mg/kg ( Rabbit )	-
N,N-Dimethylacrylamide	= 316 mg/kg ( Rat )	907mg/kg ( Rabbit )	> 776 ppm ( Rat ) 1 h
2-Hydroxyethyl methacrylate	= 5050 mg/kg ( Rat )	> 3000 mg/kg ( Rabbit )	-
N-[3-(Dimethylamino)propyl] methacrylamide	= 3334 mg/kg ( Rat )	= 2355 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
3-Methacryloxypropyltrimethoxy silane	= 23.5 g/kg ( Rat )	> 2000 mg/kg ( Rat )	> 2.28 mg/L ( Rat ) 6 h

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

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

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

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# SAFETY DATA SHEET (SDS)



**Manufacturer:**  
Dymax®

**Product Name:**  
Dymax OP-54 UV Optical Adhesive (3ml)

**Manufacturer Part Number:**  
OP-54-3ML

▶ [Click here for more details on the Dymax OP-54 UV Optical Adhesive \(3ml\)](#)

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

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**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** The environmental impact of this product has not been fully investigated.

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)
N,N-Dimethylacrylamide	-	LC50: >100mg/L 96h (Oncorhynchus mykiss)	-	EC50 > 120 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)
N-[3-(Dimethylamino)propyl] methacrylamide	-	LC50: =290mg/L (96h, Oncorhynchus mykiss)	-	-
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-Methacryloxypropyltrimethoxysilane	EC50 > 536.00 mg/l 72 h (Scenedesmus subspicatus)	LC50: >100mg/L (96h Danio rerio)	-	EC50 > 876.00 mg/l 48 h (Daphnia magna)

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## 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
N,N-Dimethylacrylamide	-0.3
2-Hydroxyethyl methacrylate	0.42
N-[3-(Dimethylamino)propyl] methacrylamide	0.5
Acrylic Acid	0.46
3-Methacryloxypropyltrimethoxysilane	2.1

## 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
N,N-Dimethylacrylamide	The substance is not PBT / vPvB
2-Hydroxyethyl methacrylate	The substance is not PBT / vPvB
N-[3-(Dimethylamino)propyl] methacrylamide	The substance is not PBT / vPvB
Acrylic Acid	The substance is not PBT / vPvB
3-Methacryloxypropyltrimethoxysilane	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

### IATA

14.1 UN number or ID number Not regulated

14.2 Extended Proper Shipping Not regulated

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**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 None

**IMDG**

14.1 UN number or ID number Not regulated  
14.2 Extended Proper Shipping Name Not regulated  
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 None  
14.7 Maritime transport in bulk according to IMO instruments No information available

**RID**

14.1 UN number or ID number Not regulated  
14.2 Extended Proper Shipping Name Not regulated  
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 None

**ADR**

14.1 UN number or ID number Not regulated  
14.2 Extended Proper Shipping Name Not regulated  
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 None

## 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 at work.

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**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 Annex XVII	Substance subject to authorization per REACH Annex XIV
2-Hydroxyethyl methacrylate - 868-77-9	75.	-
Acrylic Acid - 79-10-7	75.	-

**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
IECSC	Complies
KECL	Complies
PICCS	Not Listed
AIIC	Complies
NZIoC	Complies

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

H226 - Flammable liquid and vapor  
H301 - Toxic if swallowed  
H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
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

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H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

**Legend**

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	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitizers		

Classification procedure	Method Used
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
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	On basis of test data
Chronic aquatic toxicity	On basis of test data
Aspiration hazard	Calculation method
Ozone	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

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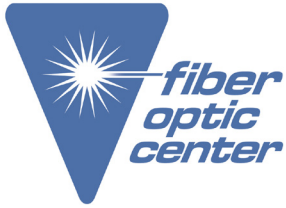
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Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

Revision date 27-Apr-2023

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

**Disclaimer**

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**End of Safety Data Sheet**

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