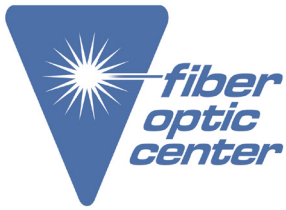


# SAFETY DATA SHEET (SDS)



**Manufacturer:**  
Dymax®

**Product Name:**  
Dymax OP-60 Optical Positioning UV Adhesive (3ml)

**Manufacturer Part Number:**  
OP-60-3ML

▶ [Click here for more details on the Dymax OP-60 Optical Positioning UV Adhesive \(3ml\)](#)



This safety data sheet was created pursuant to the requirements of: GB/T 16483, GB/T 17519

**Adhesives** **OP-60**

**Issuing Date** 31-Aug-2023 **Revision date** 31-Aug-2023 **Revision Number** 33

## 1. Identification

**Product identifier**

**Product Name** OP-60

**Other means of identification**

**Pure substance/mixture** Mixture  
**Details of the supplier of the safety data sheet**

**Manufacturer / Supplier**

Dymax Corporation  
318 Industrial Lane  
Torrington, CT 06790  
Tel: 860-482-1010  
Fax: 860-496-0608

Hanarey Chemicals (Shanghai) Co., Ltd  
No.111, Muhua Road  
Fengxian District  
Shanghai, China  
Tel: +86 21 3758 5098  
ZIP: 201507

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

**E-mail address**

Product\_Regulatory\_Asia@dymax.com

**Emergency telephone number**

400-6267911 (24hrs)

**China** 400-6267911 (Mandarin) **Hong Kong** 800-968-793 (Cantonese) **Philippines** 1-800-1-116-1020

**Recommended use of the chemical and restrictions on use**

**Recommended use** No information available  
**Restrictions on use** Other usages expect recommendation use.  
**Uses advised against** Consumer use.

## 2. Hazard(s) identification

**Emergency Overview**  
Irritating to skin  
Risk of serious damage to eyes  
May cause allergic skin reaction

**Appearance** opaque **Physical state** Liquid **Odor** Characteristic

**Classification of the substance or mixture**

Acute toxicity - Oral	Category 5
Skin corrosion/irritation	Category 2

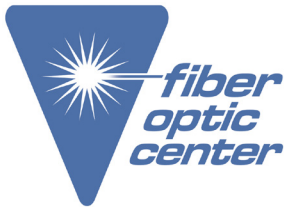
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Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

### Label elements



**Signal word** Danger

### Hazard statements

May be harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction.

### Precautionary statements

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/clothing and eye/face protection.

#### Response

Get medical advice/attention if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.

#### Storage

Store in a closed container.

#### Disposal

Dispose of contents/container to an approved waste disposal plant.

#### Physical and chemical hazards

Not applicable.

#### Health hazards

Immediate Health Effects: If large quantities of this material are swallowed, call a physician immediately. If symptoms persist, call a physician. Causes skin irritation (pain, redness and swelling). Risk of serious damage to eyes. Impairment of vision. Allergic reactions (sensitizer). Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Chronic effects: Not applicable.

#### Environmental hazards

Not applicable.

#### Other hazards which do not result in classification

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

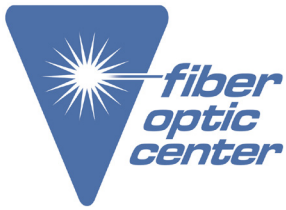
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### 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

Chemical name	CAS No.	Weight-%
N,N-Dimethylacrylamide	2680-03-7	5-<10
Alkyl acrylate	Proprietary	1-<3
Acrylic Acid	79-10-7	1-<3
Visible photoinitiator	Proprietary	1-<3
Photoinitiator	Proprietary	1-<3
Silane Coupling Agent	Proprietary	0.1-<1
Sodium Hydroxide	1310-73-2	0.1-<1

### 4. First-aid measures

**Description of necessary first aid measures****General advice**

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Ingestion**

Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

**Inhalation**

Remove to fresh air. Get medical attention immediately if symptoms occur.

**Skin contact**

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.

**Eye contact**

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.

**Most important symptoms/effects, acute and delayed**

Burning sensation. Itching. Rashes. Hives.

**For emergency responders**

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

**Note to physicians**

May cause sensitization in susceptible persons. Treat symptomatically.

### 5. Fire-fighting measures

**Extinguishing media****Suitable Extinguishing Media**Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical or CO<sub>2</sub>.**Unsuitable extinguishing media**

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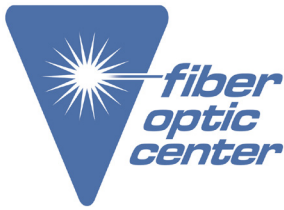
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Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical**

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

**Hazardous combustion products**

Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Hydrocarbons. Nitrogen oxides (NO<sub>x</sub>).

**Special protective actions for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### 6. Accidental release measures

**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.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**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**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal

**Precautions to prevent secondary hazards**

Clean contaminated objects and areas thoroughly observing environmental regulations.

**Reference to other sections**

See section 8 for more information. See section 13 for more information.

### Section 7: Handling and storage, including how the chemical may be safely used

**Precautions for safe handling****Advice on safe handling**

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.

**Reference to other sections**

See Section 8 for information on appropriate personal protective equipment.

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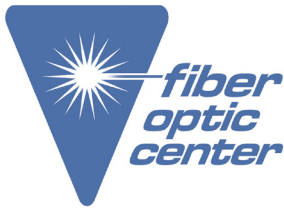
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### Conditions for safe storage, including any incompatibilities

**Storage Conditions**

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

**Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents.

## 8. Exposure controls/personal protection

### Occupational exposure limits

Chemical name	China	ACGIH TLV
Acrylic Acid	TWA: 6 mg/m <sup>3</sup> Skin*	TWA: 2 ppm S*
Sodium Hydroxide	Ceiling: 2 mg/m <sup>3</sup> Ceiling	Ceiling: 2 mg/m <sup>3</sup>

**Note:** See section 16 for terms and abbreviations.

**Biological occupational exposure limits**

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

**Monitoring and observation processes**

No applicable information was found.

**Engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**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.

**Hand protection**

Wear suitable gloves. Nitrile rubber, Butyl rubber.

**Eye/face protection**

Tight sealing safety goggles.

**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.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state: Liquid  
Appearance: opaque

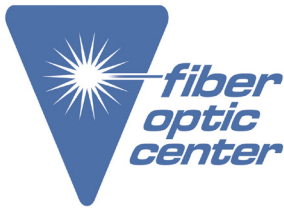
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**Color:** light yellow  
**Odor:** Characteristic  
**Odor threshold:** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH:</b>	No data available	No information available
<b>pH (as aqueous solution):</b>	No data available	Not applicable
<b>Melting point / freezing point:</b>	No data available	No information available
<b>Boiling point / boiling range:</b>	No data available	No information available
<b>Flash point:</b>	101 °C / 213.8 °F	Pensky-Martens Closed Cup (PMCC)
<b>Evaporation rate:</b>	No data available	No information available
<b>Flammability (solid, gas):</b>	No data available	Not applicable
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits:</b>	No data available	No information available
<b>Lower flammability or explosive limits:</b>	No data available	No information available
<b>Vapor pressure:</b>	No data available	No information available
<b>Relative vapor density:</b>	No data available	No information available
<b>Relative density:</b>	No data available	No information available
<b>Water solubility:</b>	No data available	No information available
<b>Solubility(ies):</b>	No data available	No information available
<b>Partition coefficient:</b>	No data available	No information available
<b>Autoignition temperature:</b>	438 °C / 820.4 °F	No information available
<b>Decomposition temperature:</b>	No data available	No information available
<b>Kinematic viscosity:</b>	No data available	No information available
<b>Dynamic viscosity:</b>	150,000 cP	

### Other information

**Explosive properties:** No information available  
**Oxidizing properties:** No information available

## 10. Stability and reactivity

### Stability

Stable under normal conditions.

### Possibility of hazardous reactions

None under normal processing.

### Reactivity

No information available.

### Explosion data

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

### Hazardous polymerization

None under normal processing.

### Conditions to avoid

Protect from light. Heat, flames and sparks.

### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

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**Hazardous decomposition products**

None under normal use conditions.

### 11. Toxicological information

**Acute toxicity**

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

ATEmix (oral): 2,074.40 mg/kg

ATEmix (dermal): 7,525.80 mg/kg

ATEmix (inhalation-gas): 99,999.00 ppm

ATEmix (inhalation-dust/mist): 115.60 mg/l

ATEmix (inhalation-vapor): 99,999.00 mg/l

**Unknown acute toxicity**

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

**Component Information:**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
N,N-Dimethylacrylamide	= 316 mg/kg ( Rat )	907mg/kg (Rabbit)	> 776 ppm ( Rat ) 1 h
Alkyl acrylate	= 5190 mg/kg ( Rat )	= 5000 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
Visible photoinitiator	> 2000 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Photoinitiator	= 1694 mg/kg ( Rat )	= 6929 mg/kg ( Rat )	-
Silane Coupling Agent	= 23.5 g/kg ( Rat )	> 2000 mg/kg ( Rat )	> 2.28 mg/L ( Rat ) 6 h
Sodium Hydroxide	= 325 mg/kg ( Rat )	= 1350 mg/kg ( Rabbit )	-

**Skin corrosion/irritation:**

Classification based on data available for ingredients. Irritating to skin.

**Serious eye damage/eye irritation:**

Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

**Respiratory or skin sensitization:**

May cause sensitization by skin contact.

**Germ cell mutagenicity:**

Not classified. Based on available data, the classification criteria are not met.

**Carcinogenicity:**

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

Chemical name	China	IARC
Alkyl acrylate	-	Group 2B
Acrylic Acid	-	Group 3

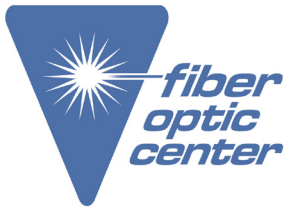
**Legend:**

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans

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**Reproductive toxicity:**

Not classified. Based on available data, the classification criteria are not met.

**Specific target organ toxicity (single exposure):**

Not classified. Based on available data, the classification criteria are not met.

**Specific target organ toxicity (repeated exposure):**

Not classified. Based on available data, the classification criteria are not met.

**Target organ effects:**

Respiratory system. Eyes. Skin.

**Aspiration hazard:**

No information available.

## 12. Ecological information

**Ecotoxicity****Product Information**

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

Chemical name	Algae/aquatic plants	Fish	Crustacea
N,N-Dimethylacrylamide	-	LC50: >100mg/L 96h (Oncorhynchus mykiss)	EC50 > 120 mg/l 48 h (Daphnia magna)
Acrylic Acid	EC50: =0.04mg/L (72h, Desmodosmus 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)
Visible photoinitiator	-	LC50: >90µg/L (96h, Danio rerio)	-
Silane Coupling Agent	EC50 > 536,00 mg/l 72 h (Scenedesmus subspicatus)	LC50: >100mg/L (96h Danio rerio)	EC50 > 876,00 mg/l 48 h (Daphnia magna)
Sodium Hydroxide	-	LC50: =45.4mg/L (96h, Oncorhynchus mykiss)	-

**Persistence and degradability**

No information available.

**Bioaccumulative potential**

There is no data for this product.

**Component Information**

Chemical name	Partition coefficient
N,N-Dimethylacrylamide	-0.3
Alkyl acrylate	0.67
Acrylic Acid	0.46
Visible photoinitiator	5.8
Photoinitiator	1.62
Silane Coupling Agent	2.1

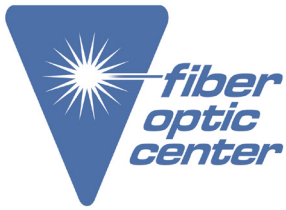
**Mobility in soil**

No information available.

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**Other adverse effects**  
No information available.

### 13. Disposal considerations

**Waste chemicals**  
Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging**  
Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of contents/containers in accordance with local regulations.

### 14. Transport information

**IMDG**      Not regulated

**IATA**      Not regulated

**China**      Not regulated

### 15. Regulatory information

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

#### National regulations

Catalog of occupational hazard factors:      Listed Chemical hazards  
Catalog of occupational diseases:      Listed Occupational poisoning

Chemical name	Category
Sodium Hydroxide	Chemical hazards

#### Regulations on the Control over Safety of Hazardous Chemicals

**Inventory of hazardous chemicals**  
The table below indicates ingredients above the cut-off threshold considered as relevant which are listed. Weight-% 3

Chemical name	Inventory of hazardous chemicals	Serial number
Acrylic Acid	Listed	0145
Sodium Hydroxide	Listed	1669

**GB 18218-2018 Identification of major hazard installations for dangerous chemicals**  
Not applicable.

#### List of hazardous chemicals under priority management

Chemical name	List of priority hazardous chemicals under work safety management
Acrylic Acid	Listed

#### Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used

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**Inventory of highly toxic goods**  
Not applicable.

**Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals**

**List of toxic chemicals severely restricted for import and export in China**  
Not applicable.

**Measures for the Environmental Management of New Chemical Substances**

**IECSC - China Inventory of Existing Chemical Substances**  
Complies.

**International Regulations**

**International Inventories**

AIIC	Complies
DSL/NDSL	Listed on NDSL
EINECS/ELINCS	Complies
ENCS	Complies
KECL	Complies
PICCS	Not Listed
NZIoC	Complies
TCSI	Complies
TSCA	Complies

**The Montreal Protocol on Substances that Deplete the Ozone Layer**  
Not applicable.

**The Stockholm Convention on Persistent Organic Pollutants**  
Not applicable.

**The Rotterdam Convention**  
Not applicable.

### 16. Other information

**Revision date** 31-Aug-2023

**Revision Note** The symbol (\*) in the margin of this SDS indicates that this line has been revised

**Abbreviations and acronyms**

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA (time-weighted average)	STEL (Short Term Exposure Limit)
Ceiling: Maximum limit value	*: Skin designation
+: Sensitizers	**: Hazard Designation
C: Carcinogen	R*: Reproductive toxicant
M: mutagen	

**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)

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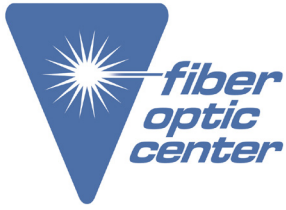
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**Issuing Date** 31-Aug-2023**Revision date** 31-Aug-2023**Revision Number** 33

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)  
Japan GHS Classification  
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  
World Health Organization

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End of Safety Data Sheet

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

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