

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

**Product Name:**

Dymax OP-30 Flexible Optical Adhesive, Hazy/Translucent, UV Cure - 3ml Syringe

**Manufacturer Part Number:**

OP-30-3ML

▶ [Click here for more details on the Dymax OP-30 Flexible Optical Adhesive, Hazy/Translucent, UV Cure - 3ml Syringe](#)

**SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: MoL Notice 2012-14

**OP-30****Issuing Date** 30-Mar-2023**Revision date** 30-Mar-2023**Revision Number** 32**1. Identification****A. Product identifier****Product Name** OP-30**B. Relevant identified uses of the substance or mixture and uses advised against****Recommended use** Adhesives and/or sealants.**Uses advised against** Consumer use.**C. Supplier's details****Manufacturer / Supplier**Dymax Corporation  
318 Industrial Lane  
Torrington, CT 06790  
Tel: 860-482-1010  
Fax: 860-496-0608Hanarey Chemicals (Shanghai) Co., Ltd.  
No.111, Muhua Road  
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Tel: +86 21 3758 5098  
ZIP: 201507Dymax 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**Importer**Dymax Korea LLC  
#506, U'space2 A-dong  
670, Daewangpangyo-ro  
Bundang-gu, Seongnam-si  
Gyeonggi-do, Korea  
Phone: +82.31.608.3434  
Fax: +82.31.608.3366**Responsibility Statement****E-mail address** Product\_Regulatory\_Asia@dymax.com**Emergency telephone number****Emergency Telephone** Chemtrec @ 001-703-741-5970 (24hrs)**Local in Country** 00-308-13-2549**Toll Free in Country** +(82) 070-7686-0086**2. Hazard(s) identification****A. Classification of the substance or mixture**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

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Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Chronic aquatic toxicity	Category 3

**B. GHS Label elements, including precautionary statements****Hazard symbols**

Signal word

Danger

**Hazard statements**

H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H335 - May cause respiratory irritation.  
H412 - Harmful to aquatic life with long lasting effects.

**Precautionary Statements - Prevention**

P264 - Wash face, hands and any exposed skin thoroughly after handling.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary Statements - Response**

P314 - Get medical advice/attention if you feel unwell.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
P362 - Take off contaminated clothing and wash before reuse.  
P304 + P340 - IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

**Precautionary Statements - Storage**

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.

**Precautionary Statements - Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant.

**C. Other hazards which do not result in classification**

Environmental product testing for acute and chronic aquatic effects determined classification to be Category 3. OECD Test No. 202: Daphnia sp., Acute Immobilization Test.

**3. Composition/information on ingredients**

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**Substance**

Not applicable.

**Mixture**

Chemical name	CAS No	Weight-%	Other identifier number
Acrylate Ester	Proprietary	25-39	Listed
Acrylic oligomer	Proprietary	10-24	Listed
Methacrylate Ester Monomer	Proprietary	10-24	Listed
Acrylate monomer	Proprietary	10-24	Listed
Acrylic Acid	79-10-7	3-<5	KE-29442
Silane Coupling Agent	Proprietary	1-<3	Listed
Peroxide	Proprietary	<1	Listed
Visible Photoinitiator	Proprietary	<1	Listed

### 4. First-aid measures

**A. In case of 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.

**B. In case of 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.

**C. In case of inhalation**

Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention.

**D. In case of ingestion**

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

**E. Indication of immediate medical attention and special treatment needed, if necessary****General advice**

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

**Self-protection of the first aider**

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.

**Symptoms**

Burning sensation. Itching. Rashes. Hives.

### 5. Fire-fighting measures

**A. Suitable (and unsuitable) extinguishing media****Suitable Extinguishing Media**

Dry chemical or CO2. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

Do not scatter spilled material with high pressure water streams.

**B. Specific hazards arising from the chemical**

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

**Hazardous combustion products**

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

**C. Special Protective Equipment for Firefighters**

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

**6. Accidental release measures****A. 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.

**B. Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**C. 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.

**Prevention of 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****A. Precautions for safe handling****Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Protect from light.

**B. Conditions for safe storage, including any incompatibilities****Storage Conditions**

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

**8. Exposure controls/personal protection****A. Control Parameters**

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**Occupational exposure limits**

Chemical name	OEL	PEL
Acrylic Acid	TWA: 2 ppm Skin*	-

**B. Appropriate engineering controls****Engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Environmental exposure controls**

Local authorities should be advised if significant spillages cannot be contained. Prevent product from entering drains.

**C. Personal protective equipment****Hand protection**

Wear suitable gloves. Nitrile rubber, Butyl rubber.

**Eye protection**

Tight sealing safety goggles.

**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**

<b>A. Appearance:</b>	transparent
<b>Physical State:</b>	Liquid
<b>color:</b>	colorless
<b>B. Odor:</b>	Characteristic
<b>C. Odor threshold:</b>	No information available

Property	Values	Remarks • Method
<b>D. pH:</b>	No data available	No information available
<b>E. Melting point / freezing point:</b>	No data available	No information available
<b>F. Initial boiling point and boiling range:</b>	No data available	No information available
<b>G. Flash point:</b>	101 °C / 213.8 °F	Pensky-Martens Closed Cup (PMCC)
<b>H. Evaporation rate:</b>	No data available	No information available
<b>I. Flammability (solid, gas):</b>	No data available	Not applicable
<b>J. Upper/lower flammability or explosive limits:</b>	No data available	No information available
<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>K. Vapor pressure:</b>	No data available	No information available
<b>L. Solubility(ies):</b>		
<b>Water solubility:</b>	partially soluble	No information available
<b>Solubility in other solvents:</b>	No data available	No information available

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<b>M. Relative vapor density:</b>	No data available	No information available
<b>N. Specific Gravity:</b>	No data available	No information available
<b>O. Partition coefficient:</b>	No data available	No information available
<b>n-octanol/water:</b>		
<b>P. Autoignition Point:</b>	238 °C / 460.4 °F	No information available
<b>Q. Decomposition temperature:</b>	No data available	No information available
<b>R. Viscosity</b>		
Kinematic viscosity:	No data available	No information available
Dynamic viscosity:	400 cP	
<b>S. Molecular weight:</b>	No data available	

**Other information**

<b>Explosive properties:</b>	No information available
<b>Oxidizing properties:</b>	No information available
<b>Softening point:</b>	No information available
<b>VOC Content (%):</b>	No information available
<b>Liquid Density:</b>	No information available

**10. Stability and reactivity****A. Chemical stability and possibility of hazardous reactions****Stability**

Stable under normal conditions.

**Reactivity**

No information available.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous polymerization**

None under normal processing.

**Explosion data**

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

**B. Conditions to avoid**

Heat, flames and sparks. Protect from light.

**C. Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents.

**D. Hazardous decomposition products**

None under normal use conditions.

**11. Toxicological information****A. Information on the likely routes of exposure****Product Information****Inhalation:**

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

**Ingestion:**

Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

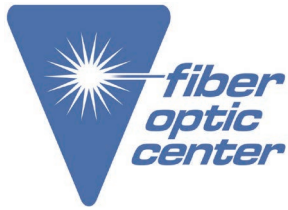
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diarrhea. May be harmful if swallowed.

**Eye contact:**

Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.

**Skin contact:**

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.

**Symptoms**

Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.

**B. Health hazards information****Acute toxicity**

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

ATEmix (oral):	4,593.50 mg/kg
ATEmix (dermal):	4,479.90 mg/kg
ATEmix (inhalation-dust/mist):	68.10 mg/l
ATEmix (inhalation-vapor):	270.10 mg/l

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

**Component Information:**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Acrylate Ester	= 4890 mg/kg ( Rat )	> 3000 mg/kg ( Rabbit )	-
Methacrylate Ester Monomer	= 5050 mg/kg ( Rat )	> 3000 mg/kg ( Rabbit )	-
Acrylate monomer	-	> 2000 mg/kg ( Rabbit ) 1000 - 2000 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
Silane Coupling Agent	= 23.5 g/kg ( Rat )	> 2000 mg/kg ( Rat )	> 2.28 mg/L ( Rat ) 6 h
Peroxide	= 1012 mg/kg ( Rat )	= 3817 mg/kg ( Rabbit )	1.01 - 4.9 mg/L ( Rat ) 4 h
Visible Photoinitiator	-	> 2000 mg/kg ( Rat )	-

**Skin corrosion/irritation:**

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

**Serious eye damage/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.

**Carcinogenicity:**

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

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

Chemical name	IARC
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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**Germ cell mutagenicity:**

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

**Reproductive toxicity:**

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

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

May cause respiratory irritation. May cause drowsiness or dizziness.

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

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

**Target organ effects**

Respiratory system. Eyes. Skin.

**Aspiration hazard:**

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

## 12. Ecological information

**A. Ecotoxicity****Ecotoxicity**

Harmful to aquatic life with long lasting effects.

**Product Information**

Environmental product testing for acute and chronic aquatic effects determined classification to be Category 3. OECD Test No. 202: Daphnia sp., Acute Immobilization Test.

Chemical name	Fish	Crustacea	Algae/aquatic plants
Acrylate Ester	LC50: =0.704mg/L 96h (Danio rerio)	EC 50 = 1.1 mg/L 48 h (Daphnia magna)	ErC 50 = 2.7 mg/L 96h (Pseudokirchneriella subcapitata)
Methacrylate Ester Monomer	LC50: 213 - 242mg/L (96h, Pimephales promelas) LC50: =227mg/L (96h, Pimephales promelas)	EC50 > 380 mg/l 48 h (Daphnia magna)	-
Acrylic Acid	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)	EC50: =0.04mg/L (72h, Desmodesmus subspicatus) EC50: =0.17mg/L (96h, Pseudokirchneriella subcapitata)
Silane Coupling Agent	LC50: >100mg/L (96h Danio rerio)	EC50 > 876,00 mg/l 48 h (Daphnia magna)	EC50 > 536,00 mg/l 72 h (Scenedesmus subspicatus)
Peroxide	LC50: =1.6mg/L 96h (Danio rerio)	EC50 = 11 mg/l 48h (Daphnia magna)	ErC50 = 0.8 mg/l 72h } par (Green Algae)
Visible Photoinitiator	LC50 10 mg/l 48 h (Oryzias latipes)	-	-

**B. Persistence and degradability**

No information available.

**C. Bioaccumulative potential**

There is no data for this product.

**Component Information**

Chemical name	Partition coefficient
Acrylate Ester	4.52
Acrylic oligomer	2.03
Methacrylate Ester Monomer	0.42

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Acrylate monomer	1.2
Acrylic Acid	0.46
Silane Coupling Agent	2.1
Peroxide	3
Visible Photoinitiator	3.1

**D. Mobility in soil**

No information available.

**E. Other adverse effects****Endocrine Disruptor Information**

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

### 13. Disposal considerations

**A. Waste treatment methods****Waste from residues/unused products**

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

**B. Disposal considerations****Contaminated packaging**

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

### 14. Transport information

A. UN number or ID number:	Not regulated
B. UN proper shipping name:	Not regulated
C. Transport hazard class(es):	Not regulated
D. Packing group:	Not regulated
E. Marine pollutant:	Not applicable
F. Special precautions for user:	None

### 15. Regulatory information

**A. Industrial Safety and Health Law**

Chemical name	Prohibited substance	Substances Requiring Permission	Harmful substances subject to control	ISHA - Substances to be controlled - Metals	ISHA - Substances to be controlled - Acids and bases
Acrylic Acid	Not applicable	Not applicable	>=1 %	Not applicable	>=1%

**B. Chemicals Control Act**

Chemical name	Toxic substance	Prohibited substance	Restricted substance
Acrylic Acid	2020-1-0983, 5 % *	Not applicable	Not applicable

\* Mixtures containing this % or more are designated

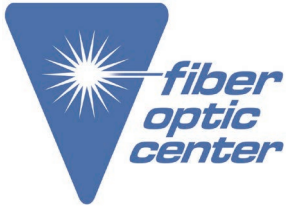
Chemicals Control Act (CCA) - Accident Precaution Chemicals  
Applicable.

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Chemical name	Threshold Values (%)	Quantity limit for manufacture/use	Quantity limit for custody/storage
Acrylic Acid		1500000 kg/yr	20000 kg/yr

**C. Safety Control of Dangerous Substances Act**

Not applicable.

**D. Wastes Management**

Dispose of waste in accordance with environmental legislation.

**E. Other Regulations****Pollutant Release and Transfer Register (PRTR)****International Inventories**

AIIC	Complies
DSL/NDL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Not Listed
NZIoC	Complies
TCSI	Complies
TSCA	Complies

**Legend:**

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

**16. Other information****A. Information sources and references**

Prepared By No information available

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

ACGIH: ACGIH (American Conference of Governmental Industrial Hygienists)  
IMDG: International Maritime Dangerous Goods (IMDG)

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

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

**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)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AELG(s))

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# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

**Product Name:**

Dymax OP-30 Flexible Optical Adhesive, Hazy/Translucent, UV Cure - 3ml Syringe

**Manufacturer Part Number:**

OP-30-3ML



Click here for more details on the Dymax OP-30 Flexible Optical Adhesive, Hazy/Translucent, UV Cure - 3ml Syringe

## OP-30

Issuing Date 30-Mar-2023

Revision date 30-Mar-2023

Revision Number 32

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

**B. Issuing Date** 30-Mar-2023

**C. Revision number and date**

**Revision Number** 32

**Revision date** 30-Mar-2023

**D. Other** No information available

**Disclaimer**

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End of Safety Data Sheet

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