

SAFETY DATA SHEET (SDS)



Manufacturer:
Dymax®

Product Name:
Dymax OP-32 UV Optical Adhesive (30ml)

Manufacturer Part Number:
OP-32-30ML

▶ [Click here for more details on the Dymax OP-32 UV Optical Adhesive \(30ml\)](#)



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Australia Work Health and Safety Act 2012

OP-32

Issuing Date 26-Oct-2023

Revision date 26-Oct-2023

Revision Number 31

Section 1: Identification: Product identifier and chemical identity

Product identifier

Product Name OP-32

Other means of identification

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Adhesives and/or sealants

Uses advised against Consumer use

Details of manufacturer or importer

Manufacturer

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

Supplier

UV Pacific Pty Ltd.
Adelaide, South Australia
Phone: 61 (0)8-8277-9721
Fax: 61 (0)8-8277-9739

9:00 am to 6:00 pm Monday to Friday

Responsibility Statement

Contact Point Product Safety Department

E-mail address Robert@uvpacific.com

Emergency telephone number

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

+(61)-290372994 (Australia)
+(64)-98010034 (New Zealand)

Section 2: Hazard(s) identification

GHS Classification

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1 - (H317)
Specific target organ toxicity (single exposure)	Category 3 - (H335)

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

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Label elements

Exclamation mark
Corrosion



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.

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.
Use only outdoors or in a well-ventilated area.

Precautionary Statements - 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.
IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Precautionary Statements - Disposal

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

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.

Section 3: Composition and information on ingredients

Substance

Not applicable.

Mixture

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Chemical name	CAS No.	Weight-%
Acrylate Ester	Proprietary	20 - 30%
Acrylic oligomer	Proprietary	10 - 20%
Methacrylate Ester Monomer	Proprietary	10 - 20%
Acrylate monomer	Proprietary	10 - 20%
Acrylic Acid	79-10-7	0 - 10%
Silane Coupling Agent	Proprietary	0 - 10%
Peroxide	Proprietary	0 - 10%
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	75980-60-8	0 - 10%
Non-hazardous ingredients	Proprietary	Balance

Section 4: First aid measures**Description of first aid measures****General advice**

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

Emergency telephone number

Poisons Information Center, Australia: 13 11 26.

Poisons Information Center, New Zealand: 0800 764 766.

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. IF exposed or concerned: Get medical advice/attention.

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.

Self-protection of the first aider

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

Most important symptoms and effects, both acute and delayed**Symptoms**

Burning sensation. Itching. Rashes. Hives.

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**Suitable Extinguishing Media**

Suitable extinguishing media

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

Unsuitable extinguishing media

Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the chemical
Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous combustion products

Carbon dioxide (CO₂). Carbon monoxide. Hydrocarbons. Nitrogen oxides (NO_x).

Special protective actions for fire-fighters

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

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

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

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

Precautions for safe handling

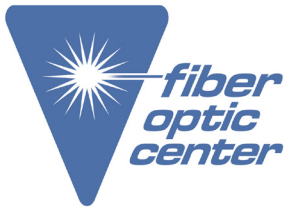
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Advice on safe handling
Protect from light.

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.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Protect from light.

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

Section 8: Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	Australia	ACGIH TLV
Acrylic Acid	2 ppm TWA 5.9 mg/m ³ TWA	TWA: 2 ppm S*

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

Appropriate engineering controls

Engineering controls
Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Hand protection
Wear suitable gloves. Nitrile rubber, Butyl rubber.

Eye/face protection
Wear safety glasses with side shields (or 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.

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

Section 9: Physical and chemical properties

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Information on basic physical and chemical properties

Physical state: Liquid
Appearance: transparent
Color: colorless
Odor: Characteristic
Odor threshold: No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	101 °C	Pensky-Martens Closed Cup (PMCC)
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Insoluble in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	238 °C	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available cP	None known
Explosive properties:	No information available	
Oxidizing properties:	No information available	

Other information

Softening point: No information available
Molecular weight: No information available
VOC content: No information available
Liquid Density: No information available
Bulk density: No information available

Section 10: Stability and reactivityReactivity

Reactivity
 No information available.

Chemical stability

Stability
 Stable under normal conditions.

Explosion data
 Sensitivity to mechanical impact: None.

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Sensitivity to static discharge: None.

Possibility of hazardous reactions

Possibility of hazardous reactions
None under normal processing.

Hazardous polymerization
None under normal processing.

Conditions to avoid

Conditions to avoid
Protect from light. Heat, flames and sparks.

Incompatible materials

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

Hazardous decomposition products

Hazardous decomposition products
None under normal use conditions.

Section 11: Toxicological information

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 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.

Ingestion:
Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

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

Acute toxicity

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

ATEmix (oral):	4,533.10 mg/kg
ATEmix (dermal):	4,619.90 mg/kg
ATEmix (inhalation-gas):	99,999.00 ppm
ATEmix (inhalation-vapor):	99,999.00 mg/l

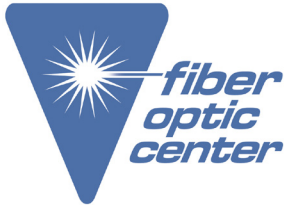
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ATEmix (inhalation-dust/mist): 70.30 mg/l

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

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
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	> 5000 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. 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	Australia	European Union	IARC
Acrylic Acid	-	-	Group 3

IARC (International Agency for Research on Cancer)

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

Reproductive toxicity:

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

STOT - single exposure:

May cause respiratory irritation.

STOT - repeated exposure:

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

Aspiration hazard:

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

Section 12: Ecological information

Ecotoxicity

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Aquatic 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	Algae/aquatic plants	Fish	Crustacea
Acrylate Ester	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)
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	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)
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)
Peroxide	ErC50 = 0.8 mg/l 72h } par (Green Algae)	LC50: =1.6mg/L 96h (Danio rerio)	EC50 = 11 mg/l 48h (Daphnia magna)
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	-	LC50 10 mg/l 48 h (Oryzias latipes)	-

Persistence and degradability

Persistence and degradability
No information available.

Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Acrylate Ester	4.52
Acrylic oligomer	2.03
Methacrylate Ester Monomer	0.42
Acrylate monomer	1.2
Acrylic Acid	0.46
Silane Coupling Agent	2.1
Peroxide	3
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	3.1

Mobility

Mobility in soil
No information available.

Mobility
No information available.

Other adverse effects

Other adverse effects
No information available.

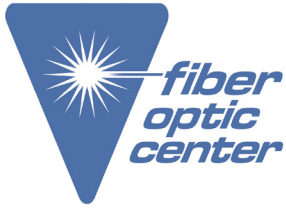
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National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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