

SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-4-20641 Optical Adhesive, Clear Transparent Gel, UV Cure - 3ml Syringe

Manufacturer Part Number:

OP-4-20641-3ML

▶ Click here for more details on the Dymax OP-4-20641 Optical Adhesive, Clear Transparent Gel, UV Cure - 3ml Syringe



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

Adhesives**OP-4-20641****Issuing Date** 25-Jan-2024**Revision date** 25-Jan-2024**Revision Number** 33**1. Identification****Product identifier****Product Name****OP-4-20641****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
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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
Contains a known or suspected carcinogen

Appearance transparent**Physical state** Liquid**Odor** Characteristic**Classification of the substance or mixture**

Skin corrosion/irritation

Category 2

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Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1B
Reproductive toxicity	Category 2

Label elements**Signal word**

Danger

Hazard statements

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. Suspected of damaging fertility or the unborn child.

Precautionary statements**Prevention**

Do not handle until all safety precautions have been read and understood. 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 locked up.

Disposal

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

Physical and chemical hazards

Not applicable.

Health hazards

Immediate Health Effects: 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: Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin.

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-%
2-Hydroxyethyl methacrylate	868-77-9	10-<25
Acrylate monomer	Proprietary	5-<10
Acrylic Acid	79-10-7	3-<5
Isobornyl Acrylate	5888-33-5	1-<3
Silane Coupling Agent	Proprietary	0.1-<1
Benzophenone	119-61-9	0.1-<1
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	75980-60-8	0.1-<1
Octocrylene	6197-30-4	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. IF exposed or concerned: Get medical advice/attention.

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**

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Suitable Extinguishing MediaUse 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

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

Hazardous combustion productsCarbon dioxide (CO₂). Carbon monoxide. Hydrocarbons. Nitrogen oxides (NO_x).**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, Protect from light, Ensure adequate ventilation.

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. Wash hands before breaks and immediately after handling the product.

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Reference to other sections

See Section 8 for information on appropriate personal protective equipment.

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 ³ Skin*	TWA: 2 ppm S*

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. Wash hands before breaks and immediately after handling the product.

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.

9. Physical and chemical properties**Information on basic physical and chemical properties**

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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	1.06	None known
Water solubility	Insoluble in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	438 °C	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	21,000 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.

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Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products

None under normal use conditions.

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.

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. Causes skin irritation.

Eye contact

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

Ingestion

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

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms**

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): 7,190.60 mg/kg
ATEmix (dermal): 6,872.30 mg/kg
ATEmix (inhalation-dust/mist): 87.90 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
2-Hydroxyethyl methacrylate	= 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
Isobornyl Acrylate	= 4890 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
Silane Coupling Agent	= 23.5 g/kg (Rat)	> 2000 mg/kg (Rat)	> 2.28 mg/L (Rat) 6 h
Benzophenone	> 10 g/kg (Rat)	= 3535 mg/kg (Rabbit)	-
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Octocrylene	> 5 g/kg (Rat)	> 2000 mg/kg (Rat)	-

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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
Acrylic Acid	-	Group 3
Benzophenone	-	Group 2B

Legend:**IARC (International Agency for Research on Cancer)**

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

Reproductive toxicity:

Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.

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

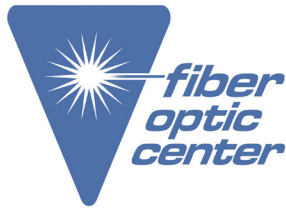
Ecotoxicity**Product Information**

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
2-Hydroxyethyl methacrylate	-	LC50: 213 - 242mg/L (96h, Pimephales promelas) LC50: =227mg/L (96h, Pimephales promelas)	EC50 > 380 mg/l 48 h (Daphnia magna)
Acrylic Acid	EC50: =0.04mg/L (72h, Desmodesmus subspicatus) EC50: =0.17mg/L (96h, Pseudokirchneriella)	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)

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	subcapitata)		
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)
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)
Benzophenone	-	LC50: 13.2 - 15.3mg/L (96h, Pimephales promelas)	-
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	-	LC50 10 mg/l 48 h (Oryzias latipes)	-

Persistence and degradability

No information available.

Bioaccumulative potential**Component Information**

Chemical name	Partition coefficient
2-Hydroxyethyl methacrylate	0.42
Acrylate monomer	1.2
Acrylic Acid	0.46
Isobornyl Acrylate	4.52
Silane Coupling Agent	2.1
Benzophenone	3.18
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	3.1
Octocrylene	6.1

Mobility in soil

No information available.

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**

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National regulations**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

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**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

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
AIICS - Australian Industrial Chemicals Introduction Scheme
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

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PICCS - Philippines Inventory of Chemicals and Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
TCSI - Taiwan Chemical Substance Inventory

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 25-Jan-2024

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)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEL(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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information in this SDS.

End of Safety Data Sheet

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