

SAFETY DATA SHEET (SDS)



Manufacturer:
Dymax®

Product Name:
Dymax OP-24-REV-B Hybrid UV & Heat Cure Adhesive (3ml)

Manufacturer Part Number:
OP-24-REV-B-3ML

▶ [Click here for more details on the Dymax OP-24-REV-B Hybrid UV & Heat Cure Adhesive \(3ml\)](#)



SAFETY DATA SHEET

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

Adhesives **OP-24-REV-B**

Issuing Date 27-Jun-2023 **Revision date** 27-Jun-2023 **Revision Number** 32.01

1. Identification

Product identifier

Product Name **OP-24-REV-B**

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 translucent **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
Specific target organ toxicity - Single exposure	Category 3
Hazardous to the Aquatic Environment - Chronic Hazard	Category 3

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. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.

Precautionary statements**Prevention**

Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. 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.

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

Storage

Store in a well-ventilated place. Keep container tightly closed. 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: 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. Signs and symptoms may include coughing, gasping, choking and difficulty breathing.

Chronic effects: Not applicable.

Environmental hazards

This material is a water pollutant. Keep out of drains, sewers, ditches and waterways. Minimize use of water to prevent environmental contamination.

Other hazards which do not result in classification

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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

Substance

Not applicable.

Mixture

Chemical name	CAS	Weight-%
Acrylate Ester	Proprietary	25-<40
Methacrylate Ester Monomer	Proprietary	25-<40
Acrylic Acid	79-10-7	3-<5
Peroxide	Proprietary	1-<3
Photoinitiator	Proprietary	1-<3
Maleic Acid	110-16-7	1-<3
Silane Coupling Agent	Proprietary	0.1-<1
Visible photoinitiator	Proprietary	0.1-<1
Epoxy Resin	Proprietary	0.1-<1

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).

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. 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.

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).

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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 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

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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.

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.

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,

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ventilation and evacuation may be required.

9. Physical and chemical properties

Information on basic physical and chemical properties

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

Property	Values	Remarks • Method
pH:	No data available	No information available
pH (as aqueous solution):	No data available	Not applicable
Melting point / freezing point:	No data available	No information available
Boiling point / boiling range:	No data available	No information available
Flash point:	101 °C / 213.8 °F	Pensky-Martens Closed Cup (PMCC)
Evaporation rate:	No data available	No information available
Flammability (solid, gas):	No data available	Not applicable
Flammability Limit in Air		
Upper flammability or explosive limits:	No data available	No information available
Lower flammability or explosive limits:	No data available	No information available
Vapor pressure:	No data available	No information available
Relative vapor density:	No data available	No information available
Relative density:	No data available	No information available
Water solubility:	partially soluble	No information available
Solubility(ies):	No data available	No information available
Partition coefficient:	No data available	No information available
Autoignition temperature:	238 °C / 460.4 °F	No information available
Decomposition temperature:	No data available	No information available
Kinematic viscosity:	No data available	No information available
Dynamic viscosity:	800 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.

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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.

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): 3,852.80 mg/kg

ATEmix (dermal): 5,414.20 mg/kg

ATEmix (inhalation-gas): 99,999.00 ppm

ATEmix (inhalation-dust/mist): 33.00 mg/l

ATEmix (inhalation-vapor): 99,999.000 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
Acrylate Ester	= 4890 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
Methacrylate Ester Monomer	= 5050 mg/kg (Rat)	> 3000 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
Peroxide	= 1012 mg/kg (Rat)	= 3817 mg/kg (Rabbit)	1.01 - 4.9 mg/L (Rat) 4 h
Maleic Acid	= 708 mg/kg (Rat)	= 1560 mg/kg (Rabbit)	> 720 mg/m ³ (Rat) 1 h
Silane Coupling Agent	= 23.5 g/kg (Rat)	> 2000 mg/kg (Rat)	> 2.28 mg/L (Rat) 6 h
Visible photoinitiator	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Epoxy Resin	= 11400 mg/kg (Rat)	-	-

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.

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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

Legend:
IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans

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

Specific target organ toxicity (single exposure):
May cause respiratory irritation.

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
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)
Peroxide	ErC50 = 0.8 mg/l (72h) par (Green Algae)	LC50: =1.6mg/L 96h (Danio rerio)	EC50 = 11 mg/l 48h (Daphnia magna)
Maleic Acid	-	LC50: =5mg/L (96h, Pimephales promelas)	EC50: 250 - 400mg/L (48h, 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)
Visible photoinitiator	-	LC50: >90µg/L (96h, Danio rerio)	-

Persistence and degradability

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No information available.

Bioaccumulative potential

There is no data for this product.

Component Information

Chemical name	Partition coefficient
Acrylate Ester	4.52
Methacrylate Ester Monomer	0.42
Acrylic Acid	0.46
Peroxide	3
Maleic Acid	-0.34
Silane Coupling Agent	2.1
Visible photoinitiator	5.8

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**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-% 7

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

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Peroxide	Listed	0865
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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
Peroxide	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
Record Notification.

International Regulations**International Inventories**

AIC	Not Listed
DSL/NDSL	Low Volume Exemption (LVE)
EINECS/ELINCS	Complies
ENCS	Not Listed
KECL	Polymer of Low Concern (PLC)
PICCS	Not Listed
NZIoC	Not Listed
TCSI	Not Listed
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 27-Jun-2023

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

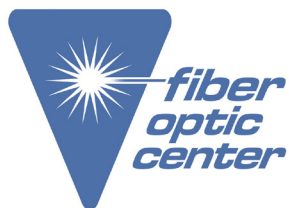
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Abbreviations and acronyms**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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) (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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