

SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-4-20632-GEL Optical Adhesive, Translucent gel, UV Cure plus Heat Exposure - 3ml Syringe

Manufacturer Part Number:

OP-4-20632-GEL-3ML

▶ Click here for more details on the Dymax OP-4-20632-GEL Optical Adhesive, Translucent gel, UV Cure plus Heat Exposure - 3ml Syringe



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SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: HazCom 2012

OP-4-20632-GEL

Issuing Date 10-Nov-2021

Revision date 10-Nov-2021

Revision Number 30

1. Identification**Product identifier**Product Name **OP-4-20632-GEL****Other means of identification****Recommended use of the chemical and restrictions on use**

Recommended use Adhesives.

Restrictions on use No information available.

Details of the supplier of the safety data sheet**Manufacturer**Dymax Corporation
318 Industrial Lane
Torrington, CT 06790
Tel: 860-482-1010
Fax: 860-496-0608**E-mail address**

Product_Regulatory@dymax.com

Emergency telephone number

24 Hour Emergency Phone Number Chemtrec 1-800-424-9300

2. Hazard(s) identification**Emergency Overview**

| | | |
|-------------------------------|------------------------------|----------------------------|
| Appearance translucent | Physical state Liquid | Odor Characteristic |
|-------------------------------|------------------------------|----------------------------|

Classification

| | |
|-----------------------------------|-------------|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitization | Category 1A |

Hazards not otherwise classified (HNOC)

Not applicable.

Label elements

Signal word Danger

Hazard statementsCauses skin irritation.
Causes serious eye damage.

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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.**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.**Precautionary Statements - Storage**

Store in a closed container.

Precautionary Statements - Disposal

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

Other information

1E-05 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

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 No | Trade secret | Weight-% |
|----------------------------|-------------|--------------|----------|
| Epoxy Acrylate | Proprietary | * | 40-69 |
| Methacrylate Ester Monomer | Proprietary | * | 10-24 |
| Epoxy Resin | Proprietary | * | 5-9 |
| Acrylic Acid | 79-10-7 | * | 3-<5 |
| Silane Coupling Agent | Proprietary | * | <1 |
| Silane Coupling Agent | Proprietary | * | <1 |
| Photoinitiator | Proprietary | * | <1 |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

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Description of first aid measures**General advice**

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

Ingestion

Clean mouth with water and drink afterwards plenty of water. 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 advice/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

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.

5. Fire-fighting measures**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 products

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

Explosion data

Sensitivity to mechanical impact: None.

Sensitivity to static discharge: None.

Special protective equipment and precautions 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**

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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.

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

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

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

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

8. Exposure controls/personal protection**Control parameters****Exposure Limits**

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|---------------|------------------|---|--|
| Acrylic Acid | TWA: 2 ppm S* | (vacated) TWA: 10 ppm (vacated) TWA: 30 mg/m ³ (vacated) S* | TWA: 2 ppm TWA: 6 mg/m ³ |

Appropriate engineering controls**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

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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.

Environmental exposure controls

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

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 / 214 °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: | 438 °C / 820.4 °F | No information available |
| Decomposition temperature: | No data available | No information available |
| Kinematic viscosity: | No data available | No information available |
| Dynamic viscosity: | 50,000 cP | |
| Other information | | |
| Explosive properties: | No information available | |
| Oxidizing properties: | No information available | |
| Softening point: | No information available | |
| Molecular weight: | No information available | |
| VOC Content (%): | No information available | |

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Liquid Density: No information available
Bulk density: No information available

10. Stability and reactivity**Reactivity**

No information available.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

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**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.

Acute toxicity

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

ATEmix (oral): 6,705.10 mg/kg
ATEmix (dermal): 10,008.30 mg/kg
ATEmix (inhalation-dust/mist): 56.10 mg/l

Unknown acute toxicity

1E-05 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

Component Information:

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------------|----------------------|-------------------------|-----------------|
| Methacrylate Ester Monomer | = 5050 mg/kg (Rat) | > 3000 mg/kg (Rabbit) | - |

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| | | | |
|-----------------------|-----------------------|-------------------------|---|
| Epoxy Resin | = 11400 mg/kg (Rat) | - | - |
| 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 | = 7.01 g/kg (Rat) | = 3.97 mL/kg (Rabbit) | > 5.3 mg/L (Rat) 4 h |
| Silane Coupling Agent | = 23.5 g/kg (Rat) | > 2000 mg/kg (Rat) | > 2.28 mg/L (Rat) 6 h |
| Photoinitiator | > 2000 mg/kg (Rat) | > 2000 mg/kg (Rat) | - |

Symptoms related to the physical, chemical and toxicological characteristics

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

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:** 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 | ACGIH | IARC | NTP | OSHA |
|---------------|-------|---------|-----|------|
| 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.**STOT - single exposure:** Not classified. Based on available data, the classification criteria are not met.**STOT - repeated exposure:** Not classified. Based on available data, the classification criteria are not met.**Target organ effects:** Respiratory system. Eyes. Skin.**Aspiration hazard:** Not classified. Based on available data, the classification criteria are not met.**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.

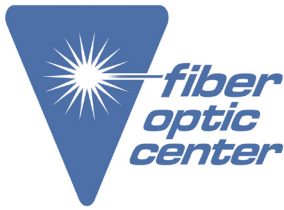
| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|----------------------------|----------------------|--|----------------------------|--------------------------------------|
| Methacrylate Ester Monomer | - | LC50: 213 - 242mg/L (96h, Pimephales promelas) | - | EC50 > 380 mg/l 48 h (Daphnia magna) |

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| | | | | |
|-----------------------|--|--|---|--|
| | | LC50: =227mg/L (96h, Pimephales promelas) | | |
| 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 | - | LC50: =55mg/L (96h, Cyprinus carpio) | - | - |
| 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) |
| Photoinitiator | - | LC50: >90µg/L (96h, Danio rerio) | - | - |

Persistence and degradability
No information available.

Bioaccumulation
There is no data for this product.

Component Information

| Chemical name | Partition coefficient |
|----------------------------|-----------------------|
| Methacrylate Ester Monomer | 0.47 |
| Acrylic Acid | 0.46 |
| Silane Coupling Agent | 2.1 |
| Photoinitiator | 5.8 |

Other adverse effects
No information available.

13. Disposal considerations**Waste treatment methods**

Waste from residues/unused products
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.

US EPA Waste Number: U008

14. Transport information

IMDG Not regulated

IATA Not regulated

DOT Not regulated

15. Regulatory information

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International Inventories**TSCA** Complies

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

| | |
|----------------------|----------|
| AIIC | Complies |
| DSL/NDL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| NZIoC | Complies |
| TCSI | Complies |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
AIICS - Australian Industrial Chemicals Introduction Scheme
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
NZIoC - New Zealand Inventory of Chemicals
TCSI - Taiwan Chemical Substance Inventory

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name | SARA 313 - Threshold Values % |
|---------------|-------------------------------|
| Acrylic Acid | 1.0 |

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | Reportable Quantity (RQ) |
|---------------|--------------------------|------------------------------------|--|
| Acrylic Acid | 5000 lb | - | RQ 5000 lb final RQ RQ 2270 kg final RQ |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
| Acrylic Acid | X | X | X |

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| | | | |
|-----------------|---|---|---|
| 1,4-Benzenediol | X | X | X |
|-----------------|---|---|---|

U.S. EPA Label Information

EPA Pesticide Registration Number
Not applicable

16. Other information

| | | | | |
|-------------|------------------|----------------|--------------------|-----------------------|
| NFPA | Health hazards 3 | Flammability 1 | Instability 0 | Special hazards - |
| HMIS | Health hazards 3 | Flammability 1 | Physical hazards 0 | Personal protection X |

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

Revision date 10-Nov-2021

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

Disclaimer

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End of Safety Data Sheet

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