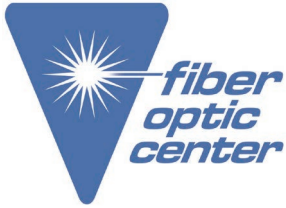


SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

▶ Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1272/2008 and Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878

OP-29V

Issuing Date 06-Jul-2023

Revision date 06-Jul-2023

Revision Number 34

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name

OP-29V

Unique Formula Identifier (UFI)

T441-603Y-0003-DCH8

Pure substance/mixture

Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use

Adhesives and/or sealants.

Uses advised against

Consumer use.

1.3. 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

Manufacturing sites

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

Supplier

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

For further information, please contact

E-mail address

Product_Regulatory_Europe@dymax.com

1.4. Emergency telephone number

Emergency Telephone

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

| | | |
|------------------------------------|--|---|
| Austria +(43)-13649237 | Belgium +(32)-28083237 | Bulgaria +(359)-32570104 |
| Croatia +(385)-17776920 | Czech Republic +(420)-228880039 | Denmark +(45)-69918573 |
| Estonia +(372)-6681294 | Finland +(358)-942419014 | France +(33)-975181407 |
| Germany 0800-181-7059 | Greece +(30)-2111768478 | Hungary +(36)-18088425 |
| Ireland +(353)-19014670 | Italy 800-789-767 | Latvia +(371)-66165504 |
| Lithuania +(370)-52140238 | Luxembourg +(352)-20202416 | Netherlands +(31)-858880596 |
| Norway +(47)-21930678 | Poland +(48)-223988029 | Portugal +(351)-308801773 |
| Romania +(40)-37-6300026 | Slovakia +(423)-233057972 | Slovenia +(386)-18888016 |
| Spain 900-868538 | Sweden +(46)-852503403 | United Kingdom +(44)-870-8200418 |
| Israel +(972)-37630639 | Russia 8-800-100-6346 | Saudi Arabia +(966)-8111095861 |
| Switzerland +(41)-435082011 | Turkey +(90)-212-7055340 | Ukraine +(380)-947101374 |

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

▶ Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

OP-29V - OP-29V

Revision date 06-Jul-2023

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Regulation (EC) No 1272/2008

| | |
|--|---------------------|
| Skin corrosion/irritation | Category 2 - (H315) |
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Skin sensitization | Category 1 - (H317) |
| Specific target organ toxicity (single exposure) | Category 3 - (H335) |
| Category 3 - Respiratory irritation | |

2.2. Label elements**Signal word** - Warning

Contains Isobornyl Acrylate, 2-Hydroxyethyl methacrylate, 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester, Acrylic Acid

Hazard statements

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

EUH208 - Contains 3-Methacryloxypropyltrimethoxysilane May produce an allergic reaction.

Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

2.3. Other hazards

No information available.

Product Information

Testing for acute and chronic aquatic effects determined no environmental classification is required. OECD Test No. 202: Daphnia sp., Acute Immobilization Test.

PBT and vPvB assessment

The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Endocrine Disruptor Information

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

SECTION 3: Composition/information on ingredients*Data is subject to change without notice.***Contact the professionals at Fiber Optic Center for a quote or to get more details.**23 Centre Street • New Bedford, MA 02740 USA • focenter.com508-992-6464 | (800) 473-4237 • sales@focenter.com

SAFETY DATA SHEET (SDS)



Manufacturer:

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

► Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

OP-29V - OP-29V

Revision date 06-Jul-2023

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | CAS | EC No (EU Index No) | REACH registration number | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|------------|-----------------------------|---------------------------|----------|--|
| Isobornyl Acrylate | 5888-33-5 | (607-756-00-6) 227-561-6 | 01-2119957862-25 -0011 | 25-39 | Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |
| 2-Hydroxyethyl methacrylate | 868-77-9 | (607-124-00-X) 212-782-2 | 01-2119490169-29 -0022 | 10-24 | Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) |
| 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester | 7328-17-8 | 230-811-7 | - | 3-<5 | Acute Tox. 4 (H302) Acute Tox. 3 (H311) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Chronic Aquatic 2 (H411) |
| Acrylic Acid | 79-10-7 | (607-061-00-8) 201-177-9 | - | 1-<3 | Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1A (H314) Aquatic Acute 1 (H400) Flam. Liq. 3 (H226) |
| 3-Methacryloxypropyltrimethoxy silane | 2530-85-0 | 219-785-8 | - | <1 | Skin Sens. 1 (H317) |
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide | 75980-60-8 | (015-203-00-X) 278-355-8 | - | <1 | Repr. 2 (H361f) |

| Chemical name | CAS | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---------------|---------|------------------------------------|----------|----------------------|
| Acrylic Acid | 79-10-7 | STOT SE 3 :: C>=1% | | |

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE_{mix}) for classifying a mixture based on its components

| Chemical name | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---|-----------------|-------------------|---|---|--------------------------------------|
| Isobornyl Acrylate | 4890 | 3000 | | | |
| 2-Hydroxyethyl methacrylate | 5050 | 3000 | | | |
| 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester | | 2000 1000 | | | |

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

▶ Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

OP-29V - OP-29V

Revision date 06-Jul-2023

| Chemical name | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---|-----------------|-------------------|---|---|--------------------------------------|
| Acrylic Acid | 193 | 2000 | 3.6 2.775 | | |
| 3-Methacryloxypropyltrimethoxysilane | 23500 | 2000 | | | |
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide | | 2000 | | | |

Full text of H- and EUH-phrases: see section 16

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

| Chemical name | CAS | SVHC candidates |
|---|------------|-----------------|
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide | 75980-60-8 | X |

SECTION 4: First aid measures**4.1. Description of first aid measures**

| | |
|---|---|
| General advice | Show this safety data sheet to the doctor in attendance. |
| Inhalation | Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur. |
| Eye contact | 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. Get medical attention if irritation develops and persists. |
| Skin contact | May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes. |
| Ingestion | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician. |
| Self-protection of the first aider | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-----------------|---|
| Symptoms | Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. |
|-----------------|---|

4.3. 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**5.1. Extinguishing media**

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

▶ Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

OP-29V - OP-29V

Revision date 06-Jul-2023

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire

CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media

Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture**Specific hazards arising from the chemical**

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

5.3. Advice for firefighters**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**6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions**

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. 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.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions**Environmental precautions**

Prevent further leakage or spillage if safe to do so.

6.3. 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

Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections**Reference to other sections**

See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Protect from light.

*Data is subject to change without notice.***Contact the professionals at Fiber Optic Center for a quote or to get more details.**23 Centre Street • New Bedford, MA 02740 USA • focenter.com508-992-6464 | (800) 473-4237 • sales@focenter.com

SAFETY DATA SHEET (SDS)



Manufacturer:

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

▶ Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

OP-29V - OP-29V

Revision date 06-Jul-2023

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container tightly closed in a dry and well-ventilated place. Protect from light.

Storage class (TRGS 510) Storage class 10.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|---|--|--|--|--|--|
| Acrylic Acid 79-10-7 | STEL: 59 mg/m ³ STEL: 20 ppm TWA: 29 mg/m ³ TWA: 10 ppm | TWA: 10 ppm TWA: 29 mg/m ³ STEL 20 ppm STEL 59 mg/m ³ | TWA: 2 ppm TWA: 6.0 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³ * | STEL: 59 mg/m ³ STEL: 20 ppm TWA: 29 mg/m ³ TWA: 10 ppm | TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³ |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| Acrylic Acid 79-10-7 | STEL: 59 mg/m ³ STEL: 20 ppm TWA: 29 mg/m ³ TWA: 10 ppm | TWA: 30 mg/m ³ Ceiling: 60 mg/m ³ | TWA: 2 ppm TWA: 5.9 mg/m ³ H* STEL: 20 ppm 1 minute STEL: 59 mg/m ³ 1 minute | TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³ | TWA: 2 ppm TWA: 6 mg/m ³ Ceiling: 15 ppm Ceiling: 45 mg/m ³ |
| Chemical name | France | Germany TRGS | Germany DFG | Greece | Hungary |
| Isobornyl Acrylate 5888-33-5 | - | - | skin sensitizer | - | - |
| 2-Hydroxyethyl methacrylate 868-77-9 | - | - | skin sensitizer | - | - |
| Acrylic Acid 79-10-7 | TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³ | TWA: 10 ppm TWA: 30 mg/m ³ | TWA: 10 ppm TWA: 30 mg/m ³ Peak: 10 ppm Peak: 30 mg/m ³ | TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³ | TWA: 29 mg/m ³ STEL: 59 mg/m ³ |
| Chemical name | Ireland | Italy MDLPS | Italy AIDII | Latvia | Lithuania |
| 2-Hydroxyethyl methacrylate 868-77-9 | - | - | - | - | Sensitizer TWA: 20 mg/m ³ |
| Acrylic Acid 79-10-7 | TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³ | TWA: 29 ppm TWA: 10 mg/m ³ STEL: 59 ppm STEL: 20 mg/m ³ pelle* | TWA: 2 ppm TWA: 6 mg/m ³ * | TWA: 5 mg/m ³ TWA: 1.7 ppm STEL: 59 mg/m ³ STEL: 20 ppm | TWA: 10 ppm TWA: 29 mg/m ³ Ceiling: 59 mg/m ³ Ceiling: 20 ppm |

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)



Manufacturer:

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

▶ Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

OP-29V - OP-29V

Revision date 06-Jul-2023

| Chemical name | Luxembourg | Malta | Netherlands | Norway | Poland |
|---|--|--|--|---|--|
| 2-Hydroxyethyl methacrylate 868-77-9 | - | - | - | TWA: 2 ppm TWA: 11 mg/m ³ STEL: 4 ppm STEL: 16.5 mg/m ³ | - |
| Acrylic Acid 79-10-7 | STEL: 59 mg/m ³ STEL: 20 ppm TWA: 29 mg/m ³ TWA: 10 ppm | STEL: 20 ppm STEL: 59 mg/m ³ TWA: 10 ppm TWA: 29 mg/m ³ | TWA: 29 mg/m ³ STEL: 59 mg/m ³ | TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³ | STEL: 29.5 mg/m ³ TWA: 10 mg/m ³ * |
| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
| Acrylic Acid 79-10-7 | TWA: 10 ppm TWA: 29 mg/m ³ STEL: 59 mg/m ³ STEL: 20 ppm P* | TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³ | TWA: 10 ppm TWA: 29 mg/m ³ Ceiling: 59 mg/m ³ | TWA: 29 mg/m ³ TWA: 10 ppm STEL: 20 ppm STEL: 59 mg/m ³ * | TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³ via dermica* |
| Chemical name | Sweden | Switzerland | United Kingdom | | |
| Acrylic Acid 79-10-7 | NGV: 10 ppm NGV: 29 mg/m ³ Bindande KGV: 20 ppm Bindande KGV: 59 mg/m ³ | TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³ | TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³ | | |

Biological occupational exposure limits

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

Derived No Effect Level (DNEL) - Workers

No information available

Derived No Effect Level (DNEL) - General Public

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

8.2. Exposure controls

Engineering controls

No information available.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Hand protection

Wear suitable gloves. Nitrile rubber, Butyl rubber.

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.

General hygiene considerations

Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

▶ Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

OP-29V - OP-29V

Revision date 06-Jul-2023

product. Avoid contact with skin, eyes or clothing.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|----------------|---------------------------|
| Physical state | Liquid |
| Appearance | transparent |
| Color | colorless light yellow to |
| Odor | Characteristic. |
| Odor threshold | No information available |

| Property | Values | Remarks • Method |
|--|--------------------------|----------------------------------|
| Melting point / freezing point | No data available | None known |
| Boiling point / boiling range | 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 | |
| Flash point | 101 - °C | Pensky-Martens Closed Cup (PMCC) |
| Autoignition temperature | 438 °C | None known |
| Decomposition temperature | | None known |
| pH | No data available | None known |
| pH (as aqueous solution) | No data available | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | 2,500 cP | None known |
| Water solubility | No data available | None known |
| Solubility(ies) | No data available | None known |
| Partition coefficient | No data available | None known |
| Vapor pressure | No data available | None known |
| Relative density | No data available | None known |
| Bulk density | No data available | |
| Liquid Density | No data available | |
| Relative vapor density | No data available | None known |
| Particle characteristics | | |
| Particle Size | No information available | |
| Particle Size Distribution | No information available | |

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

Not applicable

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity No information available.

10.2. Chemical stability

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

▶ Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

OP-29V - OP-29V

Revision date 06-Jul-2023

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****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 irritation. (based on components). May cause redness, itching, and pain. |
| Skin contact | May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. 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. |

Symptoms related to the physical, chemical and toxicological characteristics

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

Acute toxicity**Numerical measures of toxicity**

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

| | |
|---------------------------|----------------|
| ATEmix (oral) | 6,321.20 mg/kg |
| ATEmix (dermal) | 6,014.00 mg/kg |
| ATEmix (inhalation-gas) | 99,999.00 ppm |
| ATEmix (inhalation-vapor) | 99,999.00 mg/l |

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

▶ Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

OP-29V - OP-29V

Revision date 06-Jul-2023

ATEmix (inhalation-dust/mist) 115.60 mg/l

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|----------------------|---|---|
| Isobornyl Acrylate | = 4890 mg/kg (Rat) | > 3000 mg/kg (Rabbit) | - |
| 2-Hydroxyethyl methacrylate | = 5050 mg/kg (Rat) | > 3000 mg/kg (Rabbit) | - |
| 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester | - | > 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 |
| 3-Methacryloxypropyltrimethoxy silane | = 23.5 g/kg (Rat) | > 2000 mg/kg (Rat) | > 2.28 mg/L (Rat) 6 h |
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide | - | > 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. Causes skin irritation. May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

| Chemical name | European Union |
|---|----------------|
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide | Repr. 2 |

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards**11.2.1. Endocrine disrupting properties**

Endocrine disrupting properties No information available.

11.2.2. Other information

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

► Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

OP-29V - OP-29V

Revision date 06-Jul-2023

Other adverse effects No information available.

SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|--|---|----------------------------|---|
| 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) |
| 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 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) |
| 3-Methacryloxypropyltrimethoxysilane | EC50 > 536,00 mg/l 72 h (Scenedesmus subspicatus) | LC50: >100mg/L (96h Danio rerio) | - | EC50 > 876,00 mg/l 48 h (Daphnia magna) |
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide | - | LC50 10 mg/l 48 h (Oryzias latipes) | - | - |

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential**Bioaccumulation****Component Information**

| Chemical name | Partition coefficient |
|---|-----------------------|
| Isobornyl Acrylate | 4.52 |
| 2-Hydroxyethyl methacrylate | 0.42 |
| 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester | 1.2 |
| Acrylic Acid | 0.46 |
| 3-Methacryloxypropyltrimethoxysilane | 2.1 |
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide | 3.1 |

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

▶ Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

OP-29V - OP-29V

Revision date 06-Jul-2023

| Chemical name | PBT and vPvB assessment |
|---|---------------------------------|
| Isobornyl Acrylate | The substance is not PBT / vPvB |
| 2-Hydroxyethyl methacrylate | The substance is not PBT / vPvB |
| 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester | The substance is not PBT / vPvB |
| Acrylic Acid | The substance is not PBT / vPvB |
| 3-Methacryloxypropyltrimethoxysilane | The substance is not PBT / vPvB |
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide | The substance is not PBT / vPvB |

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. 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 Do not reuse empty containers.

SECTION 14: Transport information**IATA**

- 14.1 UN number or ID number Not regulated
14.2 Extended Proper Shipping Name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

IMDG

- 14.1 UN number or ID number Not regulated
14.2 Extended Proper Shipping Name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None
14.7 Maritime transport in bulk according to IMO instruments No information available

RID

- 14.1 UN number or ID number Not regulated
14.2 Extended Proper Shipping Name Not regulated

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

▶ Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

OP-29V - OP-29V

Revision date 06-Jul-2023

14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

ADR

14.1 UN number or ID number Not regulated
14.2 Extended Proper Shipping Name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France****Occupational Illnesses (R-463-3, France)**

| Chemical name | French RG number |
|--|------------------|
| 2-Hydroxyethyl methacrylate - 868-77-9 | RG 65 |

Netherlands

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins |
|---|-----------------------------------|--------------------------------|---|
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide | - | - | Fertility Category 2 |

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorization per REACH Annex XIV |
|--|---|--|
| 2-Hydroxyethyl methacrylate - 868-77-9 | 75. | - |
| Acrylic Acid - 79-10-7 | 75. | - |
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide - 75980-60-8 | 75. | - |

Persistent Organic Pollutants

Not applicable

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

▶ Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

OP-29V - OP-29V

Revision date 06-Jul-2023

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

| | |
|---------------|------------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Not Listed |
| AIIC | Complies |
| NZIoC | Complies |

Legend:

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

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

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIICS - Australian Industrial Chemicals Introduction Scheme

NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment**Chemical Safety Report** No information available**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H226 - Flammable liquid and vapor
H302 - Harmful if swallowed
H311 - Toxic in contact with skin
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H361f - Suspected of damaging fertility
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

*Data is subject to change without notice.***Contact the professionals at Fiber Optic Center for a quote or to get more details.**23 Centre Street • New Bedford, MA 02740 USA • focenter.com508-992-6464 | (800) 473-4237 • sales@focenter.com

SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

▶ Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

OP-29V - OP-29V

Revision date 06-Jul-2023

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

| Classification procedure | |
|---|-----------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - vapor | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitization | Calculation method |
| Skin sensitization | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| Reproductive toxicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | On basis of test data |
| Chronic aquatic toxicity | On basis of test data |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

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)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
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)
National Institute of Technology and Evaluation (NITE)
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 06-Jul-2023

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the

Data is subject to change without notice.

Contact the professionals at Fiber Optic Center for a quote or to get more details.23 Centre Street • New Bedford, MA 02740 USA • focenter.com508-992-6464 | (800) 473-4237 • sales@focenter.com

SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax®

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

▶ [Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe](#)

OP-29V - OP-29V

Revision date 06-Jul-2023

date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • [focenter.com](https://www.focenter.com)

508-992-6464 | (800) 473-4237 • sales@focenter.com

