

SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax

Product Name:

Dymax OP-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe

Manufacturer Part Number:

OP-81-LS-10ML

▶ [Click here for more details on the Dymax OP-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe](#)

**SAFETY DATA SHEET**

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

OP-81-LS

Issuing Date 09-Apr-2024

Revision date 09-Apr-2024

Revision Number 32.02

1. IdentificationProduct identifier

Product Name OP-81-LS

Other means of identificationRecommended use of the chemical and restrictions on use

Recommended use Adhesives and/or sealants.

Restrictions on use Consumer use.

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 opaque to translucent gel	Physical state Liquid	Odor Characteristic
---	------------------------------	----------------------------

Classification

Skin sensitization	Category 1
--------------------	------------

Hazards not otherwise classified (HNOC)
Not applicable.

Label elements

Signal word Warning

Hazard statements
May cause an allergic skin reaction.

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

Data is subject to change without notice. FOC last update 2/3/2026.

SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax

Product Name:

Dymax OP-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe

Manufacturer Part Number:

OP-81-LS-10ML

▶ [Click here for more details on the Dymax OP-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe](#)

OP-81-LS

Issuing Date 09-Apr-2024

Revision date 09-Apr-2024

Revision Number 32.02

**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray.

Precautionary Statements - ResponseGet medical advice/attention if you feel unwell.
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.
Keep at temperatures between 1 °C and 5 °C**Precautionary Statements - Disposal**

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

Other information

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

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Trade secret	Weight-%
Fused Silica (Amorphous)	60676-86-0	*	30 - 60
Cycloaliphatic Epoxide Resin	Proprietary	*	10 - 30
Epoxy resin	Proprietary	*	1 - 5
Glycidyl Ether	Proprietary	*	0.1 - 1
Photoinitiator	Proprietary	*	0.1 - 1

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

4. First-aid measures

Description of first aid measures**General advice**

Show this safety data sheet to the doctor in attendance.

Ingestion

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-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe

Manufacturer Part Number:

OP-81-LS-10ML

▶ [Click here for more details on the Dymax OP-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe](#)

OP-81-LS

Issuing Date 09-Apr-2024**Revision date** 09-Apr-2024**Revision Number** 32.02

Get medical attention.

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

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**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

Page 3 / 10

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



Data is subject to change without notice. FOC last update 2/3/2026.

SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax

Product Name:

Dymax OP-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe

Manufacturer Part Number:

OP-81-LS-10ML

▶ [Click here for more details on the Dymax OP-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe](#)

OP-81-LS

Issuing Date 09-Apr-2024

Revision date 09-Apr-2024

Revision Number 32.02

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, Protect from light, Ensure adequate ventilation.

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

Keep container tightly closed in a dry and well-ventilated place, Protect from light. Keep at temperatures between 1°C and 5 °C.

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

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Fused Silica (Amorphous)	-	TWA: 20 mppcf respirable dust TWA: respirable dust (80)/(% SiO ₂) mg/m ³ (vacated) TWA: 0.1 mg/m ³ respirable dust : (80)/(% SiO ₂) mg/m ³ TWA TWA: 20 mppcf	-
Photoinitiator	TWA: 0.5 mg/m ³ Sb	TWA: 0.5 mg/m ³ Sb (vacated) TWA: 0.5 mg/m ³ Sb	IDLH: 50 mg/m ³ Sb TWA: 0.5 mg/m ³ Sb

Appropriate engineering controls**Engineering controls**

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment**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-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe

Manufacturer Part Number:

OP-81-LS-10ML

▶ [Click here for more details on the Dymax OP-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe](#)

OP-81-LS

Issuing Date 09-Apr-2024

Revision date 09-Apr-2024

Revision Number 32.02

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Avoid contact with skin, eyes or clothing. Wash hands before breaks and after work. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

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.

Respiratory protection**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: opaque to translucent gel
Color: off-white to light black
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 / 213.8 °F	Pensky-Martens Closed Cup (PMCC)
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Insoluble in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	385 °C / 725 °F	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	30,000 - 45,000 cP	

Other information

Explosive properties: No information available

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-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe

Manufacturer Part Number:

OP-81-LS-10ML

▶ [Click here for more details on the Dymax OP-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe](#)

OP-81-LS

Issuing Date 09-Apr-2024

Revision date 09-Apr-2024

Revision Number 32.02

Oxidizing properties:	No information available
Softening point:	No information available
Molecular weight:	No information available
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

Amines. 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.

Eye contact:

Specific test data for the substance or mixture is not available.

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 mild skin irritation.

Ingestion:

Specific test data for the substance or mixture is not available.

Acute toxicity

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

ATEmix (oral):	13,312.30 mg/kg
ATEmix (dermal):	32,172.50 mg/kg
ATEmix (inhalation-dust/mist):	71.40 mg/l

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-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe

Manufacturer Part Number:

OP-81-LS-10ML

▶ [Click here for more details on the Dymax OP-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe](#)

OP-81-LS

Issuing Date 09-Apr-2024

Revision date 09-Apr-2024

Revision Number 32.02

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
Cycloaliphatic Epoxide Resin	= 5000 mg/kg (Rat)	= 23600 mg/kg (Rabbit)	-
Epoxy resin	= 1134 mg/kg (Rat)	> 2150 mg/kg (Rat)	-
Glycidyl Ether	= 17100 mg/kg (Rat)	> 3987 mg/kg (Rabbit)	-
Photoinitiator	> 2000 mg/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics

Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

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. May cause skin irritation.

Serious eye damage/eye irritation:

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

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
Fused Silica (Amorphous)	-	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.

Aspiration hazard:

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

12. Ecological information**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-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe

Manufacturer Part Number:

OP-81-LS-10ML

▶ [Click here for more details on the Dymax OP-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe](#)

OP-81-LS

Issuing Date 09-Apr-2024

Revision date 09-Apr-2024

Revision Number 32.02

Ecotoxicity**Unknown aquatic toxicity**

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Cycloaliphatic Epoxide Resin	-	LC50: =24mg/L (96h, Oncorhynchus mykiss)	-

Persistence and degradability

No information available.

Bioaccumulation**Component Information**

Chemical name	Partition coefficient
Cycloaliphatic Epoxide Resin	1.34
Epoxy resin	-0.269
Glycidyl Ether	3.77

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.

14. Transport information

IMDG Not regulated**IATA** Not regulated**DOT** Not regulated

15. Regulatory information

International Inventories**Commercial Activity Designation** - Active**TSCA** Complies**AIIC** Not Listed

Page 8 / 10

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

Data is subject to change without notice. FOC last update 2/3/2026.

SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax

Product Name:

Dymax OP-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe

Manufacturer Part Number:

OP-81-LS-10ML

▶ [Click here for more details on the Dymax OP-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe](#)

OP-81-LS

Issuing Date 09-Apr-2024

Revision date 09-Apr-2024

Revision Number 32.02

DSL/NDSL	Not Listed
EINECS/ELINCS	Complies
ENCS	Not Listed
IECSC	Complies
KECL	Complies
PICCS	Not Listed
NZIoC	Not Listed
TCSI	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
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 %
Photoinitiator	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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Photoinitiator	-	X	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Fused Silica (Amorphous) 30 - 60 %	X	X	-
Thermal initiator	X	-	X

Page 9 / 10

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



Data is subject to change without notice. FOC last update 2/3/2026.

