

Manufacturer: ÅngströmBond®

**Product Name:** Cablelite® 950-706 Optical Fiber Coating (Matrix Coating), UV Cure (1 kg)

Manufacturer Part Number: COV-950-706-1KG

Click here for more details on the Cablelite® 950-706 Optical Fiber Coating (Matrix Coating), UV Cure (1 kg)

# SAFETY DATA SHEET

Learn More



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



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Avoid breathing dust, mist, gas, vapors or spray. Wash skin and face thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear permeation resistant protective gloves and clothing. Wear eye and face protection. **Response:** IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing and wash before reuse. Storage: Store locked up. **Disposal:** Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

# 3. Composition/Information on Ingredients

### **Hazardous** Components

Concentration	Components	CAS-No.
30 - 60%	Epoxy Acrylate	55818-57-0
7 - 13%	2-phenoxyethyl acrylate	48145-04-6
5 - 10%	Isobornyl acrylate ester	5888-33-5
5 - 10%	1,6-Hexanedioldiacrylate	13048-33-4
3 - 7%	Tripropylene Glycol Diacrylate	42978-66-5
0.1 - 1%	Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	75980-60-8

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

## 4. First Aid Measures

#### Most Important Symptom(s)/Effect(s)

Acute: May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash., Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning., Causes skin irritation with symptoms of reddening, itching, and swelling.

## Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Get medical attention if irritation develops.

#### Skin Contact

In case of skin contact, wash affected areas with soap and water. Wash off immediately with plenty of water for at least 15 minutes. Immediately remove contaminated clothing and shoes. Call a physician if irritation develops or persists. Wash clothing and shoes before reuse.

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#### Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

#### Ingestion

If ingested, do not induce vomiting unless directed to do so by medical personnel. If a person vomits when lying on his back, place him in the recovery position. Get medical attention.

5. Firefighting Measures

Suitable Extinguishing Media: All extinguishing media are suitable.

Unsuitable Extinguishing Media No Data Available

### Fire Fighting Procedure

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

### Hazardous Decomposition Products

By Fire and Thermal Decomposition: Carbon dioxide (CO2), carbon monoxide (CO), dense black smoke., Acrylate monomers, Aldehydes, Organic acids

#### Unusual Fire/Explosion Hazards

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

### 6. Accidental Release Measures

### Spill and Leak Procedures

Cleanup personnel must use appropriate personal protective equipment. Dike or dam spilled material and control further spillage, if possible. Prevent from entering open drains and waterways. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal.

### 7. Handling and Storage

#### Handling/Storage Precautions

Avoid breathing dust, vapor, or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use.

#### Storage Temperature Minimum:

Minimum:	15 °C (59 °F)
Maximum:	30 °C (86 °F)

#### Storage Conditions

Inhibitor only effective in the presence of oxygen. Exposure to light may cause product polymerization. Extreme heat will result in product polymerization. Protect against heat and direct sunlight.

Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### Substances to Avoid

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Exothermic reaction with:, Free radical initiators, Peroxides, strong alkalis, Strong acids, Reactive metals

## 8. Exposure Controls/Personal Protection

The recommendations in this section should not be a substitute for a personal protective equipment (PPE) assessment performed by the employer as required by 29 CFR 1910 Subpart I.

#### **Exposure Limits**

Country specific exposure limits have not been established or are not applicable

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

### Industrial Hygiene/Ventilation Measures

General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines.

## **Respiratory Protection**

Respiratory protection is recommended in insufficiently ventilated working areas and during heating or spraying. For components with occupational exposure limits, when workers are facing concentrations above those limits, they must use appropriate certified respirators.

#### Hand Protection

Ensure gloves remain in good condition during use and replace if any deterioration is observed. Permeation resistant gloves., Nitrile rubber gloves., Avoid natural rubber gloves., Do not wear PVC gloves, as PVC absorbs acrylates.

#### **Eye Protection**

Chemical safety goggles or safety glasses with side-shields.

#### **Skin Protection**

Permeation resistant clothing, Gloves, long sleeved shirts and pants.

#### Additional Protective Measures

Ultraviolet (UV) light source is used for curing this product. UV light can be hazardous to unprotected skin and eyes. Protective eyewear should always be worn when working in UV curing areas. Skin protection such as long sleeves, long pants, and gloves should be worn when UV lights are being used. Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

9. Physical and Chemical Properties			
State of Matter:	liquid		
Color:	Amber		
Odor:	characteristic		
Odor Threshold:	No Data Available No Data Available		
pH:			
Melting Point:			
Boiling Point:			
Flash Point:	> 93 °C (> 199.4 °F) (closed cup)		
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<b>Evaporation Rate:</b>	No Data Available
Lower explosion limit:	No Data Available
Upper Explosion Limit:	No Data Available
Vapor Pressure:	No Data Available
Vapor Density:	No Data Available
Density:	1.05 g/cm <sup>3</sup> @ 20 °C (68 °F)
Relative Vapor Density:	No Data Available
Specific Gravity:	No Data Available
Solubility in Water:	No Data Available
Partition Coefficient: n-	No Data Available
octanol/water:	
Auto-ignition Temperature:	No Data Available
Decomposition Temperature:	Stable under recommended storage conditions. The product is chemically stable.
Unblocking Temperature:	No Data Available
Dynamic Viscosity:	3,990 - 5,750 mPa.s @ 20 °C (68 °F)
Kinematic Viscosity:	> 20.5  mm2/s @ 40 °C (104 °F)
Timemure (Tseosity)	$> 3800 \text{ mm2/s} @ 20 ^{\circ}\text{C} (68 ^{\circ}\text{F})$
Bulk Density:	No Data Available
Molecular Weight:	No Data Available
Self Ignition:	not applicable
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## 10. Stability and Reactivity

### **Hazardous Reactions**

No hazardous reactions when stored and handled correctly.

Stability Stable

#### Materials to Avoid

Exothermic reaction with:, Free radical initiators, Peroxides, strong alkalis, Strong acids, Reactive metals

## **Conditions to Avoid**

Exposure to sunlight. Product contains an inhibitor system. Must be inhibited to prevent hazardous polymerization. Inhibitor only effective in the presence of oxygen. Heat, flames and sparks.

## **Hazardous Decomposition Products**

By Fire and Thermal Decomposition: Carbon dioxide (CO2), carbon monoxide (CO), dense black smoke., Acrylate monomers, Aldehydes, Organic acids

11. Toxicological Information	
Likely Routes of Exposure:	Skin Contact
, , , , , , , , , , , , , , , , , , ,	Eve Contact
	Ingestion
	Inhalation
Causes serious eye irritation	skin reaction with symptoms of reddening, itching, swelling, and rash., on with symptoms of reddening, tearing, swelling, and burning., Causes skin f reddening, itching, and swelling. tility or the unborn child.
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### Toxicity Data for: Cablelite 950-706

Data on the product is not available.

Acute Oral Toxicity Acute toxicity estimate: > 5,000 mg/kg (Calculation method)

Acute Dermal Toxicity Acute toxicity estimate: 3,560 mg/kg (Calculation method)

## **Toxicity Data for: Epoxy Acrylate**

Acute Oral Toxicity LD50: > 2,000 mg/kg (rat, male/female) (OECD Test Guideline 401)

Acute Inhalation Toxicity LC50: > 4.9 mg/l, 4 h, dust/mist (rat, male/female) (OECD Test Guideline 403)

Acute Dermal Toxicity LD50: > 2,000 mg/kg (rat, male/female)

Skin Irritation rabbit, OECD Test Guideline 404, non-irritant

**Eye Irritation** rabbit, OECD Test Guideline 405, slight irritant

Sensitization Skin sensitization (local lymph node assay (LLNA)):: positive (Mouse, OECD Test Guideline 429)

Respiratory sensitization: No data available.

## **Repeated Dose Toxicity**

Oral: LOAEL: 100 mg/kg, (rat, male/female)

## Mutagenicity

Genetic Toxicity in Vitro: Ames test: negative (Metabolic Activation: with/without) In vitro mammalian cell gene mutation test: negative (Metabolic Activation: with/without)

Genetic Toxicity in Vivo: In vivo micronucleus test: negative (Mouse, male, Oral) negative

## Carcinogenicity

No data available. **Toxicity to Reproduction/Fertility** Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test, Oral, (rat, male/female)

**Developmental Toxicity/Teratogenicity** rat, female, Oral, NOAEL (teratogenicity): 1,000 mg/kg, NOAEL (maternal): > 1,000 mg/kg,

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### Toxicity Data for: 2-phenoxyethyl acrylate

Acute Oral Toxicity LD50: > 5,000 mg/kg (rat)

LD50: > 5,000 mg/kg (rat, female)

Acute Inhalation Toxicity no data available

Acute Dermal Toxicity LD50: > 2,000 mg/kg (rat)

Skin Irritation rabbit, non-irritant

**Eye Irritation** rabbit, Non-irritating

Sensitization Maximisation Test: sensitizer (Guinea pig)

Repeated Dose Toxicity 90 d, oral: NOAEL: 350 mg/kg, (rat)

Mutagenicity Genetic Toxicity in Vitro: gene mutation test: negative (Bacteria) gene mutation test: negative (mammalian cell) Chromosome aberration test: negative (Human lymphocytes)

**Toxicity to Reproduction/Fertility** Oral, (rat) NOAEL (parental): 100 mg/kg,

# Developmental Toxicity/Teratogenicity rat, oral, NOAEL (maternal): 600 mg/kg,

## Toxicity Data for: Isobornyl acrylate ester

Acute Oral Toxicity LD50: 4,890 mg/kg (rat)

Acute Dermal Toxicity LD50: > 5,000 mg/kg (rabbit)

Skin Irritation rabbit, Draize Test, Moderately irritating Moderate skin irritation

**Eye Irritation** rabbit, Draize, Mild eye irritation

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### Other Relevant Toxicity Information May cause irritation of respiratory tract.

Toxicity Data for: 1,6-Hexanedioldiacrylate

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Acute Oral Toxicity LD50: > 5,000 mg/kg (rat, male/female) (OECD Test Guideline 401)

Acute Dermal Toxicity LD50: 3,650 mg/kg (rabbit) (OECD Test Guideline 402)

rabbit, OECD Test Guideline 404, Exposure Time: 4 h, irritating **Eye Irritation** rabbit, OECD Test Guideline 405, Irritation to eyes, reversing within 7 days

Sensitization Maximisation Test: positive (Guinea pig, OECD Test Guideline 406)

Mutagenicity

**Skin Irritation** 

Genetic Toxicity in Vitro: Bacterial - gene mutation assay: negative Mammalian cell - gene mutation assay: negative (Mouse lymphoma cells (L5178Y/TK))

Genetic Toxicity in Vivo: In vivo micronucleus test: negative (Mouse, ) negative

**Toxicity to Reproduction/Fertility** Oral, (rat) NOAEL (parental): 250 mg/kg,

**Developmental Toxicity/Teratogenicity** rat, female, Oral, GD 6-15, daily, NOAEL (teratogenicity): 750 mg/kg, Did not show teratogenic effects in animal experiments.

## Toxicity Data for: Tripropylene Glycol Diacrylate

Acute Oral Toxicity LD50: 6,200 mg/kg (rat)

Acute Dermal Toxicity LD50: > 2,000 mg/kg (rabbit, male/female) (OECD Test Guideline 402)

Skin Irritation rabbit, OECD Test Guideline 404, Non-irritating

**Eye Irritation** rabbit, OECD Test Guideline 405, irritating

Sensitization dermal: ambiguous (Guinea pig)

Skin sensitization (local lymph node assay (LLNA)):: positive (Mouse, OECD Test Guideline 429)

Repeated Dose Toxicity 90 d, dermal: NOAEL: 67 mg/kg, (rat)

10 d, dermal: LOAEL: 500 mg/kg, (rat, male/female, daily)

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# Mutagenicity

Genetic Toxicity in Vitro: Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without) Mammalian cell - gene mutation assay: positive (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without) Positive and negative results were reported.

Genetic Toxicity in Vivo: Micronucleus Assay: negative (Mouse, male, intraperitoneal) negative

Carcinogenicity Mouse, dermal, 80 wNo carcinogenic effects observed at the doses tested.

#### **Developmental Toxicity/Teratogenicity**

rat, female, oral, NOAEL (teratogenicity): Not Established (<250 mg/kg), NOAEL (maternal): Not Eastablished (<250 mg/kg) rat, female, oral, GD 6-15, daily, NOAEL (teratogenicity): 250 mg/kg, NOAEL (maternal): 250 mg/kg,

#### **Other Relevant Toxicity Information**

May cause irritation of respiratory tract.

## Toxicity Data for: Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-

Acute Oral Toxicity LD50: > 5,000 mg/kg (rat) (OECD Test Guideline 401)

## Acute Dermal Toxicity LD50: > 2,000 mg/kg (rat) (OECD Test Guideline 402)

# Skin Irritation

rabbit, Non-irritating

### Eye Irritation

rabbit, Non-irritating

### Sensitization

Skin sensitization (local lymph node assay (LLNA)):: sensitizer (Mouse, OECD Test Guideline 429)

#### **Repeated Dose Toxicity** 90 Days, oral: NOAEL: 100 mg/kg, (Rat)

### Mutagenicity

Genetic Toxicity in Vitro: gene mutation test: negative (Bacteria, Metabolic Activation: with/without) In vitro mammalian cell gene mutation test: negative (Chinese hamster lung cells) Chromosome aberration test in vitro: negative (Chinese hamster lung cells)

#### **Toxicity to Reproduction/Fertility**

oral, (Rat) NOAEL (parental): 200 mg/kg, NOAEL (F2): 60 mg/kg, Reproductive effects have been observed in animal studies. Paternal Effects - Spermatogenesis (including genetic material, sperm morphology, motility, and count), testes, epididymis, sperm duct

## Developmental Toxicity/Teratogenicity

Rat, NOAEL (maternal): 150 mg/kg,

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Carcinogenicity: No carcinogenic substances as defined by IARC, NTP and/or OSHA

## 12. Ecological Information

# Ecological Data for: Cablelite 950-706

Data on the product is not available.

Ecological Data for Epoxy Acrylate Biodegradation 42 %, Exposure time: 28 d, i.e. not readily degradable

Acute and Prolonged Toxicity to Fish LC50: > 0.082 mg/l (Cyprinus carpio (Carp), 96 h) No toxic effects in the water-soluble range.

Acute Toxicity to Aquatic Invertebrates EL50: > 100 mg/l (Daphnia magna (Water flea), 48 h)

**Toxicity to Aquatic Plants** EL50: 105 mg/l, (Pseudokirchneriella subcapitata (green algae), 72 h)

**Toxicity to Microorganisms** EC50: > 1,000 mg/l, (activated sludge, 3 h)

Ecological Data for 2-phenoxyethyl acrylate Acute and Prolonged Toxicity to Fish LC50: 10 mg/l (Fish, 96 h)

Acute Toxicity to Aquatic Invertebrates EC50: 1.21 mg/l (Daphnia magna (Water flea), 48 h)

**Toxicity to Aquatic Plants** EC50: 4.44 mg/l, (algae, 72 h)

Ecological Data for Isobornyl acrylate ester Additional Ecotoxicological Remarks

No data available for this component.

Ecological Data for 1,6-Hexanedioldiacrylate Biodegradation

80 - 90 %, i.e. readily biodegradable

Acute and Prolonged Toxicity to Fish LC50: > 4.6 - < 10 mg/l (Golden orfe (Leuciscus idus), 96 h)

Acute Toxicity to Aquatic Invertebrates EC50: 2.59 mg/l (Water flea (Daphnia magna), 48 h)

**Toxicity to Aquatic Plants** 1.47 mg/l (Desmodesmus subspicatus (Gree

1.47 mg/l, (Desmodesmus subspicatus (Green algae), 72 h)

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**Toxicity to Microorganisms** EC10: 405 mg/l, (Pseudomonas putida, 0.5 h)

# Ecological Data for Tripropylene Glycol Diacrylate

**Biodegradation** > 90 %, i.e. readily biodegradable

40 - 50 %, i.e. not readily degradable

**Bioaccumulation** Does not bioaccumulate.

Acute and Prolonged Toxicity to Fish LC50: > 4.5 - < 10 mg/l (Golden orfe (Leuciscus idus), 96 h)

Acute Toxicity to Aquatic Invertebrates EC50: 88.7 mg/l (Water flea (Daphnia magna), 48 h)

**Toxicity to Aquatic Plants** EC50: > 28 mg/l, (Green algae (Scenedesmus subspicatus), 72 h)

**Toxicity to Microorganisms** EC50: > 10,000 mg/l, (Pseudomonas putida, 0.5 h)

Ecological Data for Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-Acute and Prolonged Toxicity to Fish LC50: 10 - 100 mg/l (Golden orfe (Leuciscus idus), 96 h)

Acute Toxicity to Aquatic Invertebrates EC50: 10 - 100 mg/l (Water flea (Daphnia magna), 48 h)

**Toxicity to Aquatic Plants** EC50: 10 - 100 mg/l, (72 h)

## **Toxicity to Microorganisms**

EC50: > 500 mg/l, (Wastewater bacteria, 17 h)

## 13. Disposal Considerations

## Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

#### **Empty Container Precautions**

Empty containers retain product residue (dust, liquid, vapor and/or gases) and can be dangerous. Do not reuse empty container.

14. Transportation Information

<u>Land transport (DOT)</u> Non-Regulated

Sea transport (IMDG)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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Hazard Class or Division: UN number: Packaging Group: Hazard Label(s): Marine pollutant:

Air transport (ICAO/IATA) Proper Shipping Name:

Hazard Class or Division: UN number: Packaging Group: Hazard Label(s): Marine pollutant: N.O.S. (contains BADGE epoxy acrylate, 2-Phenoxyethyl acrylate) 9 UN3082 III MISCELLANEOUS Marine pollutant

Environmentally hazardous substance, liquid, n.o.s. (contains BADGE epoxy acrylate, 2-Phenoxyethyl acrylate)

UN3082 III MISCEL Marine p

9

III MISCELLANEOUS Marine pollutant

### 15. Regulatory Information

## United States Federal Regulations

US. Toxic Substances Control Act: Listed on the Active Portion of the TSCA Inventory.

No substances are subject to TSCA 12(b) export notification requirements.

US. EPA CERCLA Hazardous Substances (40 CFR 302.4) Components: 2-phenoxyethyl acrylate Included in the regulation but with no data values. See regulation for further details

#### SARA Section 311/312 Hazard Categories:

Refer to hazard classification information in Section 2.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components: None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components: None

# US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):

Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

#### State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts	s, New Jersey of	r Pennsylvania	Right to Knov	V Substance Lists:
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Concentration	Components	CAS-No.
30 - 60%	Epoxy Acrylate	55818-57-0
>=1%	Oligomer	CAS# is a trade secret
7 - 13%	2-phenoxyethyl acrylate	48145-04-6
5 - 10%	Isobornyl acrylate ester	5888-33-5
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5 - 10%	1,6-Hexanedioldiacrylate	13048-33-4
3 - 7%	Tripropylene Glycol Diacrylate	42978-66-5
1 - 5%	ketone	CAS# is a trade secret
New Jersey Environn	ental Hazardous Substances List and/	or New Jersey RTK Special Hazardous
Substances Lists:		
Concentration	<b>Components</b>	CAS-No.
0.1 - 1%	2-Phenoxyethanol	122-99-6
0.1 - 1%	2-Propenoic acid	79-10-7
California Proposition	n 65 List:	
Concentration	<u>Components</u>	CAS-No.
<100 ppm	Toluene	108-88-3

### CFATS (Chemical Facility Anti-Terrorism Standards) Chemicals

To the best of our knowledge, this product does not contain Appendix A Chemicals of Interest (COI), at or above the Screening Threshold Quantity (STQ), as defined by the Department of Homeland Security Chemical Facility Anti-terrorism Standard (CFATS, 6 CFR Part 27).

Based on information provided by our suppliers, this product is considered "DRC Conflict Free" as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7-40-10; Date: 2012-08-22).

16. Other Information				
Version Date:	03/31/2025			

SDS Version: 1.3

For more information: phone: 1-800-473-4237, fax: 1-508-991-8876. Prepared by Fiber Optic Center, Inc.

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