

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-DS-2042-10KG

▶ Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

## SAFETY DATA SHEET

**1. Identification**

**Covestro LLC**  
1 Covestro Circle  
Pittsburgh, PA 15205  
USA

**TRANSPORTATION EMERGENCY**

CALL CHEMTRIC:  
INTERNATIONAL: (800) 424-9300  
(703) 527-3887

**NON-TRANSPORTATION**

Emergency Phone:  
Information Phone: Call Chemtrec  
(844) 646-0545

**Product Name:**

DeSolite DS-2042

**Material Number:**

50025198

**Chemical Family:**

UV-Curable Mixture

**Use:**

Raw material for coatings, inks, adhesives, sealants, or elastomers in  
industrial applications

**Restrictions on use:**

Do-It-Yourself Applications

**2. Hazards Identification****GHS Classification**

Eye irritation: Category 2A  
Skin sensitisation: Category 1  
Reproductive toxicity (Oral): Category 1B  
Reproductive toxicity: Category 2

**GHS Label Elements**

Hazard pictograms:



Signal word:

Danger

Hazard statements:

May cause an allergic skin reaction.  
Causes serious eye irritation.  
May damage fertility or the unborn child if swallowed.  
Suspected of damaging fertility or the unborn child.

Precautionary statements:

**Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and  
understood.  
Avoid breathing dust, mist, gas, vapors or spray.  
Wash skin and face thoroughly after handling.

Material Name: DeSolite DS-2042

Material Number: 50025198

Page: 1 of 15

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](http://focenter.com)

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



Data is subject to change without notice.  
FOC last update 1/6/2026.

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-DS-2042-10KG

► Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

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 it 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
10 - 30%	Tripropylene Glycol Diacrylate	42978-66-5
1 - 5%	2-phenoxyethyl acrylate	48145-04-6
1 - 5%	1,6-Hexanedioldiacrylate	13048-33-4
0.1 - 1%	Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	75980-60-8
0.1 - 1%	Polydimethylsiloxane	68037-64-9
0.1 - 1%	Oxirane, methyl-, polymer with oxirane, monoacetate, 2-propenyl ether	56090-69-8

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.

**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.

**Inhalation**

Material Name: DeSolite DS-2042

Material Number: 50025198

Page: 2 of 15

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](http://focenter.com)

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



Data is subject to change without notice.  
FOC last update 1/6/2026.

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-DS-2042-10KG

▶ Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

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 (CO<sub>2</sub>), 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:** 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**

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

Material Name: DeSolite DS-2042

Material Number: 50025198

Page: 3 of 15

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](http://focenter.com)

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



Data is subject to change without notice.  
FOC last update 1/6/2026.

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-DS-2042-10KG

▶ Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**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**

<b>Physical state:</b>	liquid
<b>Appearance:</b>	liquid
<b>Color:</b>	Colorless to light yellow
<b>Odor:</b>	characteristic
<b>Odor Threshold:</b>	No Data Available
<b>pH:</b>	not applicable
<b>Melting Point:</b>	
<b>Boiling Point:</b>	
<b>Flash Point:</b>	> 100 °C (> 212 °F) (closed cup)

Material Name: DeSolite DS-2042

Material Number: 50025198

Page: 4 of 15

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](http://focenter.com)

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



Data is subject to change without notice.  
FOC last update 1/6/2026.

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-DS-2042-10KG

► Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

<b>Evaporation Rate:</b>	No Data Available
<b>Lower explosion limit:</b>	No Data Available
<b>Upper Explosion Limit:</b>	No Data Available
<b>Vapor Pressure:</b>	No Data Available
<b>Vapor Density:</b>	No Data Available
<b>Density:</b>	0.9 g/cm <sup>3</sup> @ 20 °C (68 °F)
<b>Relative Vapor Density:</b>	No Data Available
<b>Specific Gravity:</b>	No Data Available
<b>Solubility in Water:</b>	No Data Available
<b>Partition Coefficient: n-octanol/water:</b>	No Data Available
<b>Auto-ignition Temperature:</b>	No Data Available
<b>Decomposition Temperature:</b>	Stable under recommended storage conditions. The product is chemically stable.
<b>Unblocking Temperature:</b>	No Data Available
<b>Dynamic Viscosity:</b>	5,250 - 6,750 mPa.s @ 20 °C (68 °F)
<b>Kinematic Viscosity:</b>	No Data Available
<b>Bulk Density:</b>	No Data Available
<b>Molecular Weight:</b>	No Data Available
<b>Self Ignition:</b>	not applicable
<b>Particle characteristics:</b>	No Data Available

**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 (CO<sub>2</sub>), carbon monoxide (CO), dense black smoke., Acrylate monomers, Aldehydes, Organic acids

**11. Toxicological Information**

<b>Likely Routes of Exposure:</b>	Skin Contact Eye Contact Ingestion Inhalation
-----------------------------------	--

**Health Effects and Symptoms**

**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.

**Chronic:** May damage fertility or the unborn child.

Material Name: DeSolite DS-2042

Material Number: 50025198

Page: 5 of 15

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](http://focenter.com)

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



Data is subject to change without notice.  
FOC last update 1/6/2026.

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-DS-2042-10KG

▶ Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Toxicity Data for: DeSolite DS-2042**

Data on the product is not available.

Please find the data available for the components.

**Acute Oral Toxicity**

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

**Acute Dermal Toxicity**

Acute toxicity estimate: 2,802 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) (OECD Test Guideline 402)

**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): 1000, NOAEL (maternal): > 1000 rabbit, female, Oral, NOAEL

Material Name: DeSolite DS-2042

Material Number: 50025198

Page: 6 of 15

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](http://focenter.com)

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



Data is subject to change without notice.  
FOC last update 1/6/2026.

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-DS-2042-10KG

▶ Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

(teratogenicity): 1000, NOAEL (maternal): 1000

**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, negative

**Eye Irritation**

rabbit, OECD Test Guideline 405, Slightly irritating

**Sensitization**

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

**Repeated Dose Toxicity**

Oral: NOAEL: 375, (rat, male/female, daily)

Dermal: NOAEL: 66,7, (rat, male/female, 5 days/week)

**Mutagenicity**

Genetic Toxicity in Vitro:

In vitro mammalian cell gene mutation test: negative (Chinese hamster ovary (CHO) cells, Metabolic Activation: with/without)

In vitro mammalian cell gene mutation test: positive (mouse lymphoma cells, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:

In vivo micronucleus test: negative (Mouse, male/female, intraperitoneal)  
negative

In vivo micronucleus test: negative (Mouse, female, intraperitoneal)  
negative

**Carcinogenicity**

Mouse, male, Dermal, 2 times/week

NOAEL: > 25mg/kg bw/day

**Toxicity to Reproduction/Fertility**

Oral, daily, (rat, male/female) Oral, daily, (rat, male/female)

**Developmental Toxicity/Teratogenicity**

rat, female, Oral, daily, NOAEL (maternal): > 375 rabbit, female, Oral, daily, NOAEL (maternal): 450 rat, female, Oral, daily, NOAEL (teratogenicity): 250, NOAEL (maternal): 250

**Other Relevant Toxicity Information**

May cause irritation of respiratory tract.

**Toxicity Data for: 2-phenoxyethyl acrylate****Acute Oral Toxicity**

Material Name: DeSolite DS-2042

Material Number: 50025198

Page: 7 of 15

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](http://focenter.com)

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



Data is subject to change without notice.  
FOC last update 1/6/2026.

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-DS-2042-10KG

▶ Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

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

**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**

Skin sensitisation according to Magnusson/Kligmann (maximizing test):: positive (Guinea pig, OECD Test Guideline 406)

**Repeated Dose Toxicity**

Oral: NOAEL: 300 mg/kg, (rat, male/female)

Oral: NOAEL: 350 mg/kg, (rat, male/female)

**Mutagenicity**

Genetic Toxicity in Vitro:

Ames test: negative (Escherichia coli, Metabolic Activation: with/without)

Ames test: negative (Salmonella typhimurium, Metabolic Activation: with/without)

In vitro mammalian cell gene mutation test: negative (mouse lymphoma cells, Metabolic Activation: with/without)

Chromosome aberration test in vitro: negative (Human lymphocytes, Metabolic Activation: with/without)

**Toxicity to Reproduction/Fertility**

Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test,

Oral, (rat, male/female)

**Developmental Toxicity/Teratogenicity**

rat, Oral, NOAEL (teratogenicity): 600, NOAEL (maternal): 600

**Toxicity Data for: 1,6-Hexanedioldiacrylate****Acute Oral Toxicity**

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

**Acute Inhalation Toxicity**

LC0: 0.41 mg/l, 7 h, vapour (rat, male/female)

**Acute Dermal Toxicity**

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

**Skin Irritation**

rabbit, OECD Test Guideline 404, Exposure Time: 4 h, irritating

**Eye Irritation**

rabbit, irritating

**Sensitization**

Material Name: DeSolite DS-2042

Material Number: 50025198

Page: 8 of 15

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](http://focenter.com)

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



Data is subject to change without notice.  
FOC last update 1/6/2026.

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-DS-2042-10KG

▶ Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

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

**Repeated Dose Toxicity**

Oral: NOAEL: 250 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)

Studies of a comparable product.

negative

**Toxicity to Reproduction/Fertility**

Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test, Oral, (rat, Male/Female) NOAEL (parental): 250 mg/kg,

**Developmental Toxicity/Teratogenicity**

rat, male and female, Oral, NOAEL (teratogenicity): 750 mg/kg, NOAEL (maternal): 250 mg/kg, Did not show teratogenic effects in animal experiments.

**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**

Material Name: DeSolite DS-2042

Material Number: 50025198

Page: 9 of 15

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](http://focenter.com)

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



Data is subject to change without notice.  
FOC last update 1/6/2026.

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-DS-2042-10KG

▶ Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

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

**Toxicity Data for: Polydimethylsiloxane****Acute Oral Toxicity**

LD50: 28,200 mg/kg (rat)

**Acute Dermal Toxicity**

LD50: > 2,000 mg/kg (rabbit)

**Skin Irritation**

No skin irritation

**Eye Irritation**

slight irritant

Suppliers' information

**Toxicity Data for: Oxirane, methyl-, polymer with oxirane, monoacetate, 2-propenyl ether****Acute Oral Toxicity**

no data available

**Acute Inhalation Toxicity**

no data available

**Acute Dermal Toxicity**

no data available

**Skin Irritation**

Skin irritation

**Eye Irritation**

Severely irritating

**Carcinogenicity:**

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

**12. Ecological Information****Ecological Data for: DeSolite DS-2042**

Data on the product is not available. Please find below the ecotoxicological data available to us for the components.

**Ecological Data for Epoxy Acrylate****Biodegradation**

42 %, Exposure time: 28 d, i.e. not readily degradable

**Bioaccumulation**

An accumulation in aquatic organisms is not to be expected.

**Acute and Prolonged Toxicity to Fish**

Material Name: DeSolite DS-2042	Material Number: 50025198
Page: 10 of 15	

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](http://focenter.com)

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



Data is subject to change without notice.  
FOC last update 1/6/2026.

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-DS-2042-10KG

▶ Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

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)

EL10: 29 mg/l, End Point: Growth inhibition (Pseudokirchneriella subcapitata (green algae), 72 h)

**Toxicity to Microorganisms**

EC50: > 1,000 mg/l, (activated sludge, 3 h)

**Ecological Data for Tripropylene Glycol Diacrylate****Biodegradation**

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

**Bioaccumulation**

Accumulation in aquatic organisms is unlikely.

**Acute and Prolonged Toxicity to Fish**

LC50: 1 - 10 mg/l (Leuciscus idus (Golden orfe), 96 h)

**Acute Toxicity to Aquatic Invertebrates**

EC50: 10 - 100 mg/l (Daphnia magna (Water flea), 48 h)

**Toxicity to Aquatic Plants**

ErC50: 10 - 100 mg/l, (scenedesmus subspicatus, 72 h)

**Toxicity to Microorganisms**

EC50: > 10,000 mg/l, (Pseudomonas putida, 0.5 h)

**Ecological Data for 2-phenoxyethyl acrylate****Biodegradation**

aerobic, 22 %, Exposure time: 28 d, i.e. readily biodegradable

**Bioaccumulation**

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

**Acute and Prolonged Toxicity to Fish**

LC50: 10 mg/l (Leuciscus idus (Golden orfe), 96 h)

**Acute Toxicity to Aquatic Invertebrates**

EC50: 1.21 mg/l (Daphnia magna (Water flea), 48 h)

**Toxicity to Aquatic Plants**

EC50: 4.4 mg/l, (Desmodesmus subspicatus (Green algae), 72 h)

EC10: 0.71 mg/l, (Desmodesmus subspicatus (Green algae), 72 h)

**Toxicity to Microorganisms**

EC50: 177 mg/l, (activated sludge)

**Ecological Data for 1,6-Hexanedioldiacrylate****Biodegradation**

Material Name: DeSolite DS-2042

Material Number: 50025198

Page: 11 of 15

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](http://focenter.com)

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



Data is subject to change without notice.  
FOC last update 1/6/2026.

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-DS-2042-10KG

▶ Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

60 - 70 %, Exposure time: 28 d, i.e. inherently degradable

60 - 70 %, Exposure time: 28 d, i.e. readily biodegradable

**Acute and Prolonged Toxicity to Fish**

LC50: 0.38 mg/l (Oryzias latipes (Japanese medaka), 96 h)

**Acute Toxicity to Aquatic Invertebrates**

EC50: 2.7 mg/l (Daphnia magna (Water flea), 48 h)

**Toxicity to Aquatic Plants**

EC50: 2.33 mg/l, (Selenastrum capricornutum (green algae), 72 h)

NOEC: 0.9 mg/l, (Selenastrum capricornutum (green algae), 72 h)

**Toxicity to Microorganisms**

EC50: 270 mg/l, (activated sludge, 30 min)

**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)

**Ecological Data for Polydimethylsiloxane****Biodegradation**

9.9 %, Exposure time: 28 d, i.e. not readily degradable

**Acute and Prolonged Toxicity to Fish**

NOEC: 884 mg/l (Oncorhynchus mykiss (rainbow trout), 96 h)

**Acute Toxicity to Aquatic Invertebrates**

NOEC: 963 mg/l (Daphnia magna (Water flea), 48 h)

**Toxicity to Aquatic Plants**

EC50: 623 mg/l, (Pseudokirchneriella subcapitata (green algae), 96 h)

**Toxicity to Microorganisms**

EC50: > 2,000 mg/l, (activated sludge)

**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.

Material Name: DeSolite DS-2042

Material Number: 50025198

Page: 12 of 15

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](http://focenter.com)

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



Data is subject to change without notice.  
FOC last update 1/6/2026.

# SAFETY DATA SHEET (SDS)



**Manufacturer:**  
Covestro  
**Product Name:**  
Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)  
**Manufacturer Part Number:**  
COV-DS-2042-10KG

► Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

## 14. Transportation Information

### Land transport (DOT)

Non-Regulated

### Sea transport (IMDG)

Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Bisphenol A diglycidyl diacrylate, Tripropylene glycol diacrylate)

Hazard Class or Division:

9

UN number:

UN3082

Packaging Group:

III

Hazard Label(s):

MISCELLANEOUS

Marine pollutant:

Marine pollutant

### Air transport (ICAO/IATA)

Proper Shipping Name:

Environmentally hazardous substance, liquid, n.o.s. (contains Bisphenol A diglycidyl diacrylate, Tripropylene glycol diacrylate)

Hazard Class or Division:

9

UN number:

UN3082

Packaging Group:

III

Hazard Label(s):

MISCELLANEOUS

Marine pollutant:

Marine pollutant

## 15. Regulatory Information

### United States Federal Regulations

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

### **SNUR Components**

No substances are subject to Section 5 Significant New Use Rule (SNUR) requirements.

### **Section 6 Risk Management Components:**

No substances are subject to Section 6 Risk Management rule requirement.

### **Section 12b Components:**

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

### **Section 4 Test Order/Rule Components:**

No substances are subject to Section 4 Final Test Orders or Rules.

### **Consent Order:**

No substances are subject to Section 5 Consent Order 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.

Material Name: DeSolite DS-2042

Material Number: 50025198

Page: 13 of 15

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](http://focenter.com)

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



Data is subject to change without notice.  
FOC last update 1/6/2026.

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-DS-2042-10KG

▶ Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**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:**

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
1 - 5%	2-phenoxyethyl acrylate	48145-04-6

**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, New Jersey or Pennsylvania Right to Know Substance Lists:**

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
30 - 60%	Epoxy Acrylate	55818-57-0
>=1%	Oligomer	CAS# is a trade secret
10 - 30%	Tripropylene Glycol Diacrylate	42978-66-5
>=1%	Polymer	CAS# is a trade secret
1 - 5%	2-phenoxyethyl acrylate	48145-04-6
1 - 5%	1,6-Hexanediodiacrylate	13048-33-4
1 - 5%	Methanone, (1-hydroxycyclohexyl)phenyl-	947-19-3

**Massachusetts Right to Know Extraordinarily Hazardous Substance List:**

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<100 ppm	Furan	110-00-9
<100 ppm	Propylene Oxide	75-56-9

**California Proposition 65 List:**

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<100 ppm	Toluene	108-88-3
<100 ppm	Furan	110-00-9
<100 ppm	Propylene Oxide	75-56-9
<1 ppm	Acetaldehyde	75-07-0

**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**

Material Name: DeSolite DS-2042

Material Number: 50025198

Page: 14 of 15

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](http://focenter.com)

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



Data is subject to change without notice.  
FOC last update 1/6/2026.

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

**Manufacturer Part Number:**

COV-DS-2042-10KG

▶ Click here for more details on the Covestro DeSolite® DS-2042 Secondary Optical Fiber Coating, UV Cure (10 kg)

Contact: Product Safety Department  
Telephone: (412) 413-2835  
Version Date: 10/31/2025  
SDS Version: 1.5

Information contained in this Safety Data Sheet (SDS) is believed to be accurate but is furnished without warranty, express or implied, including warranties of merchantability or fitness for a particular purpose. The information relates only to the specific material designated herein. Covestro LLC assumes no legal responsibility for use of or reliance upon the information in this SDS and such information shall in no case be considered a part of our terms and conditions of sale. The user is responsible for determining whether the Covestro product is suitable for user's method of use or application. Covestro is not liable for any failure to observe the precautionary measures described in this SDS or for any misuse of the product.

Material Name: DeSolite DS-2042

Material Number: 50025198

Page: 15 of 15

**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](http://focenter.com)

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

Learn More

Data is subject to change without notice.  
FOC last update 1/6/2026.