

SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

Product Name:

Covestro DeSolite® COV-DS-2900 Secondary Optical Fiber Coating, UV and LED Cure (10 kg).

Manufacturer Part Number:

COV-DS-2900-10KG

▶ [Click here for more details on the Covestro DeSolite® COV-DS-2900 Secondary Optical Fiber Coating, UV and LED Cure \(10 kg\).](#)

SAFETY DATA SHEET



1. Identification

Covestro LLC
1 Covestro Circle
Pittsburgh, PA 15205
USA

TRANSPORTATION EMERGENCY

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

NON-TRANSPORTATION

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

Product Name: DeSolite DS-2900
Material Number: 86700905
Chemical Family: Acrylate Resin
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
Specific target organ toxicity - single exposure: Category 3 (Respiratory system)

GHS Label Elements

Hazard pictograms:



Signal word: Danger

Hazard statements: May cause an allergic skin reaction.
Causes serious eye irritation.
May cause respiratory 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

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understood.

Keep container tightly closed.

Avoid breathing dust, mist, gas, vapors or spray.

Wash skin and face thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Response:

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

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.

Call a doctor or emergency medical facility (i.e. 911) if you feel unwell.

If skin irritation or rash occurs: Get medical attention.

If eye irritation persists: Get medical attention.

Wash contaminated clothing before reuse.

Storage:

Store in a well-ventilated place.

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
3 - 7%	1,6-Hexanedioldiacrylate	13048-33-4
1 - 5%	Acrylate	CAS# is a trade secret
1 - 5%	Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	75980-60-8
0.1 - 1%	Siloxanes and Silicones, di-Me, Me hydrogen, reaction products with polyethylene-polypropylene glycol monoacetate allyl ether	68037-64-9

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., May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

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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

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: 15 °C (59 °F)

Maximum: 30 °C (86 °F)

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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

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.

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9. Physical and Chemical Properties

State of Matter:	liquid
Appearance:	liquid
Color:	Clear
Odor:	characteristic
Odor Threshold:	No Data Available
pH:	No Data Available
Freezing Point:	No Data Available
Setting Point:	No Data Available
Melting Point:	No Data Available
Boiling Point:	No Data Available
Flash Point:	> 100 °C (> 212 °F) (closed cup)
Evaporation Rate:	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:	1.13 g/cm ³ @ 20 °C (68 °F)
Relative Vapor Density:	No Data Available
Specific Gravity:	No Data Available
Solubility in Water:	No Data Available
Partition Coefficient: n-octanol/water:	No Data Available
Auto-ignition Temperature:	No Data Available
Decomposition Temperature:	Stable under recommended storage conditions. The product is chemically stable.
Unblocking Temperature:	No Data Available
Softening point:	No Data Available
Dynamic Viscosity:	6,000 mPa.s @ 20 °C (68 °F)
Kinematic Viscosity:	No Data Available
Bulk Density:	No Data Available
Molecular Weight:	No Data Available
Pour point:	No Data Available
Self Ignition:	not applicable

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

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11. Toxicological Information

Likely Routes of Exposure: 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., May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

Chronic: Repeated and prolonged contact may cause an allergic skin reaction in sensitive individuals., May damage fertility or the unborn child.

Toxicity Data for: DeSolite DS-2900

Data on the product is not available.

Acute Dermal Toxicity

Acute toxicity estimate: 3,010 mg/kg (Calculation method)

Toxicity Data for: Epoxy Acrylate**Acute Oral Toxicity**

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

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)

Mutagenicity

Genetic Toxicity in Vitro:

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

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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 Established (<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: 1,6-Hexanedioldiacrylate**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)

Skin Irritation

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

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: Acrylate**Acute Oral Toxicity**

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

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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: 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)

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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,

Toxicity Data for: Siloxanes and Silicones, di-Me, Me hydrogen, reaction products with polyethylene-polypropylene glycol monoacetate allyl ether**Acute Oral Toxicity**

LD50: 28,200 mg/kg (rat)

Acute Dermal Toxicity

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

Carcinogenicity:

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

12. Ecological Information**Ecological Data for: DeSolite DS-2900**

Data on the product is not available.

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 1,6-Hexanedioldiacrylate**Biodegradation**

80 - 90 %, i.e. readily biodegradable

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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 (Green algae), 72 h)

Toxicity to Microorganisms

EC10: 405 mg/l, (Pseudomonas putida, 0.5 h)

Ecological Data for 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 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 Siloxanes and Silicones, di-Me, Me hydrogen, reaction products with polyethylene-polypropylene glycol monoacetate allyl ether**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**Land transport (DOT)**

Non-Regulated

Sea transport (IMDG)

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Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Bisphenol A diglycidyl diacrylate, Tripropylene glycol diacrylate, Hexane-1,6-diol 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, Hexane-1,6-diol diacrylate)
Hazard Class or Division: 9
UN number: UN3082
Packaging Group: III
Hazard Label(s): MISCELLANEOUS
Marine pollutant: Marine pollutant

Additional Transportation Information

IATA/IMDG: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5kg.

15. Regulatory Information**United States Federal Regulations****US. Toxic Substances Control Act:** On Active Portion of TSCA Inventory.**US. EPA CERCLA Hazardous Substances (40 CFR 302.4) Components:**

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, New Jersey or Pennsylvania Right to Know Substance Lists:

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<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
30 - 60%	Epoxy Acrylate	55818-57-0
10 - 30%	Tripropylene Glycol Diacrylate	42978-66-5
>=1%	Polymer	CAS# is a trade secret
3 - 7%	1,6-Hexanedioldiacrylate	13048-33-4
>=1%	Polymer	CAS# is a trade secret
1 - 5%	Acrylate	CAS# is a trade secret
1 - 5%	Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	75980-60-8

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
0.1 - 1%	2-Phenoxyethanol	122-99-6

Massachusetts Right to Know Extraordinarily Hazardous Substance List:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<100 ppm	Phenol	108-95-2

California Proposition 65 List:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<0.1%	Toluene	108-88-3

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

Contact: Product Safety Department
Telephone: (412) 413-2835
Version Date: 12/05/2023
SDS Version: 1.1

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-2900

Material Number: 86700905

*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