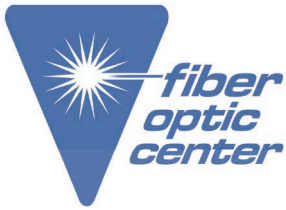


SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

Product Name:

Covestro DeSolite® DF-0009 Single Coat Optical Fiber Coating, UV Cure (1 kg)

Manufacturer Part Number:

COV-DF-0009-1KG

▶ Click here for more details on the Covestro DeSolite® DF-0009 Single Coat Optical Fiber Coating, UV Cure (1 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 DF-0009
Material Number: 50025051
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**

Acute toxicity (Oral):	Category 4
Skin irritation:	Category 2
Serious eye damage:	Category 1
Skin sensitisation:	Category 1
Reproductive toxicity:	Category 1B
Specific target organ toxicity - repeated exposure:	Category 2

GHS Label Elements

Hazard pictograms:



Signal word: Danger

Hazard statements: Harmful if swallowed.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements: **Prevention:**

Material Name: DeSolite DF-0009

Material Number: 50025051

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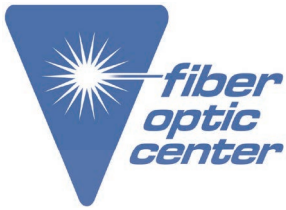
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Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust, mist, gas, vapors or spray.

Wash skin and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

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 SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

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.

Immediately call a doctor or emergency medical facility (i.e., 911).

If skin irritation or rash occurs: 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.

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity:

35 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity:

42 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity:

36 %

3. Composition/Information on Ingredients

Hazardous Components

Concentration	Components	CAS-No.
30 - 60%	Acrylated resin	CAS# is a trade secret
30 - 60%	Copolymer	68071-07-8
5 - 10%	2-Propenoic acid, tridecyl ester	3076-04-8
5 - 10%	N,N-Dimethylacrylamide	2680-03-7
3 - 7%	Epoxy Acrylate	55818-57-0
1 - 5%	2-Propenoic acid, dodecyl ester	2156-97-0
1 - 5%	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5
1 - 5%	Ethanone, 2,2-dimethoxy-1,2-diphenyl-	24650-42-8
0.1 - 1%	2-Hydroxyethyl Acrylate	818-61-1
0.1 - 1%	Lauric acid	143-07-7
0.1 - 1%	2-Propenoic acid	79-10-7

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

Material Name: DeSolite DF-0009

Material Number: 50025051

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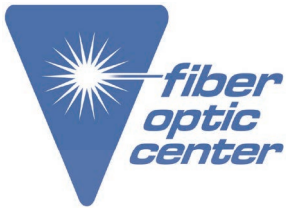
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Product Name:

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Manufacturer Part Number:

COV-DF-0009-1KG

▶ Click here for more details on the Covestro DeSolite® DF-0009 Single Coat Optical Fiber Coating, UV Cure (1 kg)

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 damage with symptoms of eye burns, corneal injury, and possible blindness., Causes severe skin burns with symptoms of necrosis and possible scarring., Harmful if swallowed.

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.

Material Name: DeSolite DF-0009

Material Number: 50025051

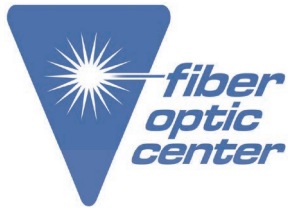
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7. Handling and Storage

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

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**2-Propenoic acid (79-10-7)**

US. ACGIH Threshold Limit Values, as amended
Time weighted average 2 ppm

US. ACGIH Threshold Limit Values, as amended
Skin Dermal absorption possible

US. ACGIH Threshold Limit Values, as amended
Hazard Designation: Group A4 Not classifiable as a human carcinogen.

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,

Material Name: DeSolite DF-0009

Material Number: 50025051

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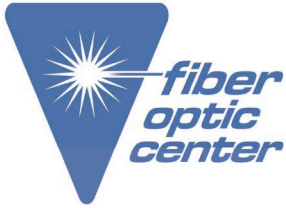
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as PVC absorbs acrylates.

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

Physical state:	liquid
Appearance:	liquid
Color:	Colorless to light yellow
Odor:	characteristic
Odor Threshold:	No Data Available
pH:	not applicable
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:	1.12 g/cm ³ @ 20 °C (68 °F)
Relative Vapor Density:	No Data Available
Specific Gravity:	No Data Available
Solubility in Water:	insoluble
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:	5,700 - 7,700 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
Particle characteristics:	No Data Available

Material Name: DeSolite DF-0009

Material Number: 50025051

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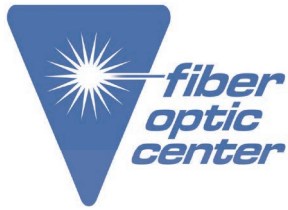
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10. Stability and Reactivity**Hazardous Reactions**

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 ProductsBy 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
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 damage with symptoms of eye burns, corneal injury, and possible blindness. Causes severe skin burns with symptoms of necrosis and possible scarring. Harmful if swallowed.

Chronic: May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.**Toxicity Data for: DeSolite DF-0009**

Data on the product is not available.

Please find the data available for the components.

Acute Oral Toxicity

Acute toxicity estimate: 1,058 mg/kg (Calculation method)

Acute Dermal Toxicity

Acute toxicity estimate: 2,645 mg/kg (Calculation method)

Toxicity Data for: Copolymer**Acute Oral Toxicity**

LD50: > 2,000 mg/kg (rat) (OECD Test Guideline 423)

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

Acute Inhalation Toxicity

Material Name: DeSolite DF-0009

Material Number: 50025051

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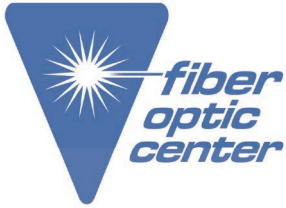
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Manufacturer Part Number:

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▶ Click here for more details on the Covestro DeSolite® DF-0009 Single Coat Optical Fiber Coating, UV Cure (1 kg)

LC50: > 4.9 mg/l, 4 h, dust/mist (rat) (OECD Test Guideline 403)

Acute Dermal Toxicity

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

Sensitization

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

Repeated Dose Toxicity

NOAEL: > 900 mg/kg, (rat)

Toxicity Data for: 2-Propenoic acid, tridecyl ester**Acute Oral Toxicity**

LD50: 10,000 mg/kg (rat)

Acute Inhalation Toxicity

LC50: 10,000 mg/l, 4 h, vapour (rat)

Acute Dermal Toxicity

no data available

Skin Irritation

Skin irritation

Eye Irritation

irritating

Toxicity Data for: N,N-Dimethylacrylamide**Acute Oral Toxicity**

LD50: 215 - 464 mg/kg (rat, male/female)

Acute Dermal Toxicity

LD50: 541 - 910 mg/kg (rabbit)

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)

Material Name: DeSolite DF-0009

Material Number: 50025051

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

Toxicity Data for: 2-Propenoic acid, dodecyl ester**Acute Oral Toxicity**

LD50: > 5,570 mg/kg (rat, male/female) (OECD Test Guideline 401)

Acute Inhalation Toxicity

LC50: > 0.69 mg/l, 6 h, vapour (rat, male/female) (OECD Test Guideline 403)

Acute Dermal Toxicity

LD50: > 5,000 mg/kg (rat, male/female) (OECD Test Guideline 402)

Skin Irritation

rabbit, OECD Test Guideline 404, No skin irritation

Eye Irritation

rabbit, OECD Test Guideline 405, No skin irritation

Sensitization

Respiratory sensitization:
no data available

Skin sensitisation:: positive

Repeated Dose Toxicity

Oral: NOAEL: 1,000 mg/kg, (rat, male/female, daily)

Mutagenicity

Genetic Toxicity in Vitro:

Chromosome aberration test in vitro: negative (Chinese hamster V79 cell line, Metabolic Activation:
with/without)

Material Name: DeSolite DF-0009

Material Number: 50025051

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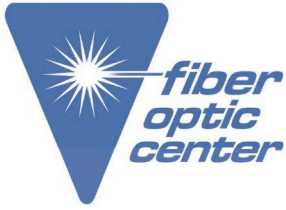
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Ames test: negative (Salmonella typhimurium, Metabolic Activation: with/without)
In vitro mammalian cell gene mutation test: negative (Chinese hamster ovary (CHO) cells, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:
Micronucleus test: negative (Mouse,)
negative

negative (rat,)
negative

Toxicity to Reproduction/Fertility

Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test,
Oral, daily, (rat, male/female) NOAEL (parental): 1,000 mg/kg, NOAEL (F1): 1,000 mg/kg,

Developmental Toxicity/Teratogenicity

rat, male and female, Oral, daily, NOAEL (teratogenicity): 1,000 mg/kg, NOAEL (maternal): 1,000 mg/kg,

Toxicity Data for: 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one**Acute Oral Toxicity**

LD50: 1,984 mg/kg (rat, male/female) (OECD Test Guideline 401)

Acute Dermal Toxicity

LD50: > 2,000 mg/kg (rabbit, 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:: negative (Guinea pig, OECD Test Guideline 406)

Respiratory sensitization:
no data available

Repeated Dose Toxicity

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

Mutagenicity

Genetic Toxicity in Vitro:
Ames test: negative (Salmonella typhimurium, Metabolic Activation: with/without)
Chromosome aberration test in vitro: negative (Chinese hamster V79 cell line, Metabolic Activation: with/without)
In vitro mammalian cell gene mutation test: negative (mouse lymphoma cells, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:
In vivo micronucleus test: negative (hamster, male/female, Oral)
negative

Toxicity to Reproduction/Fertility

Oral, daily, (rat, male/female)

Material Name: DeSolite DF-0009

Material Number: 50025051

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Developmental Toxicity/Teratogenicity

rat, male and female, Oral, daily, NOAEL (maternal): 40 mg/kg,

Toxicity Data for: Ethanone, 2,2-dimethoxy-1,2-diphenyl-**Acute Oral Toxicity**

LD50: 1,470 mg/kg (rat, male/female)

Acute Dermal Toxicity

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

Toxicity Data for: 2-Hydroxyethyl Acrylate**Acute Oral Toxicity**

LD50: 540 mg/kg (rat)

Acute Inhalation Toxicity

LC50: > 1.45 mg/l, 7 h, vapour (rat, female)

Acute Dermal Toxicity

LD50: > 1,000 mg/kg (rat, male/female)

Skin Irritation

rabbit, Corrosive

Eye Irritation

rabbit, Corrosive

Sensitization

Skin sensitization (local lymph node assay (LLNA)):: positive (Mouse)

Repeated Dose Toxicity

1,5 a, Inhalative: NOAEL: 0.0024 mg/l, (rat, male/female)

Mutagenicity

Genetic Toxicity in Vitro:

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

Micronucleus test: positive (mouse lymphoma cells, Metabolic Activation: without)

Genetic Toxicity in Vivo:

Micronucleus test: negative (Mouse)

Toxicological studies of a comparable product.
negative

Carcinogenicity

rat, male/female, Inhalative, 1,5 a

Toxicity to Reproduction/Fertility

Two-generation study, (rat, male/female) Toxicological studies of a comparable product.

Developmental Toxicity/Teratogenicity

rat, NOAEL (maternal): 20 mg/kg,

Toxicity Data for: Lauric acid

Material Name: DeSolite DF-0009

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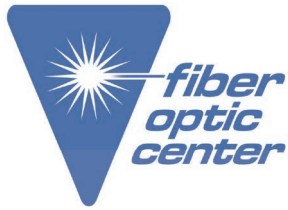
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Acute Oral Toxicity

no data available

Acute Inhalation Toxicity

no data available

Acute Dermal Toxicity

no data available

Toxicity Data for: 2-Propenoic acid**Acute Oral Toxicity**

LD50: 1,000 - 2,000 mg/kg (rat) (OECD Test Guideline 423)

Acute Inhalation Toxicity

LC50: > 5.1 mg/l, , vapour (rat) (OECD Test Guideline 403)

Acute Dermal Toxicity

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

Skin Irritation

rabbit, OECD Test Guideline 404, Exposure Time: 3 min, Corrosive

Eye Irritation

rabbit, OECD Test Guideline 405, Corrosive

Sensitization

Skin sensitisation: negative (Guinea pig, Other method)

Repeated Dose Toxicity

90 days, Oral: NOAEL: 83 mg/kg, LOAEL: 250 mg/kg, (rat, male/female, daily)

90 days, inhalation (vapour): NOAEL: 0.221 mg/l, (rat)

Mutagenicity

Genetic Toxicity in Vitro:

Mammalian cell - gene mutation assay: negative (Chinese hamster ovary (CHO) cells, Metabolic

Activation: with/without)

Positive and negative results were seen in various in vitro studies.

Unscheduled DNA synthesis: negative (rat hepatocytes, Metabolic Activation: without)

Positive and negative results were seen in various in vitro studies.

Genetic Toxicity in Vivo:

Other assay: negative (Rat, Male/Female, oral)

negative

Other assay: negative (Mouse, Male/Female, oral)

negative

Toxicity to Reproduction/Fertility

Two generation study, oral, (Rat)

Developmental Toxicity/Teratogenicity

Rat, inhalation, NOAEL (maternal): 0.012 mg/l,

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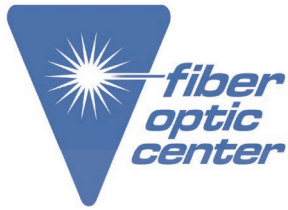
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**Manufacturer:**

Covestro

Product Name:

Covestro DeSolite® DF-0009 Single Coat Optical Fiber Coating, UV Cure (1 kg)

Manufacturer Part Number:

COV-DF-0009-1KG

▶ Click here for more details on the Covestro DeSolite® DF-0009 Single Coat Optical Fiber Coating, UV Cure (1 kg)

Other Relevant Toxicity Information

May cause irritation of respiratory tract.

Carcinogenicity:

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

12. Ecological Information**Ecological Data for: DeSolite DF-0009**

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

Ecological Data for Copolymer**Acute and Prolonged Toxicity to Fish**

LC50: 4.2 mg/l (Fish, 48 h)

Acute Toxicity to Aquatic Invertebrates

No data available.

Toxicity to Aquatic Plants

No data available.

Ecological Data for 2-Propenoic acid, tridecyl ester**Acute and Prolonged Toxicity to Fish**

No data available.

Acute Toxicity to Aquatic Invertebrates

No data available.

Toxicity to Aquatic Plants

No data available.

Ecological Data for N,N-Dimethylacrylamide**Acute and Prolonged Toxicity to Fish**

LC50: > 120 mg/l (Fish, 96 h)

Acute Toxicity to Aquatic Invertebrates

EC50: > 120 mg/l (Daphnia (water flea), 48 h)

Toxicity to Aquatic Plants

EC50: > 400 mg/l, (algae, 96 h)

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

LC50: > 0.082 mg/l (Cyprinus carpio (Carp), 96 h)

No toxic effects in the water-soluble range.

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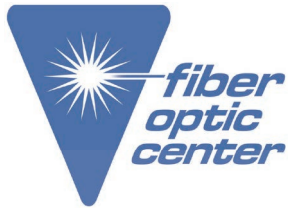
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Acute Toxicity to Aquatic Invertebrates

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 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one**Biodegradation**

aerobic, <= 1 %, Exposure time: 28 d, i.e. not readily degradable

Bioaccumulation

Oryzias latipes (Orange-red killifish), Exposure time: 56 d, < 10 BCF

Acute and Prolonged Toxicity to Fish

LC50: 9 mg/l (Danio rerio (zebra fish), 96 h)

Acute Toxicity to Aquatic Invertebrates

EC50: 15.3 mg/l (Daphnia magna (Water flea), 24 h)

Toxicity to Aquatic Plants

EC50: 1.6 mg/l, (Desmodesmus subspicatus (Green algae), 72 h)

NOEC: 0.86 mg/l, (Desmodesmus subspicatus (Green algae), 72 h)

Toxicity to Microorganisms

EC50: > 100 mg/l, (activated sludge, 3 h)

Ecological Data for 2-Hydroxyethyl Acrylate**Biodegradation**

79 %, Exposure time: 28 d, i.e. readily biodegradable

Acute and Prolonged Toxicity to Fish

LC50: 4.8 mg/l (Pimephales promelas (fathead minnow), 96 h)

Acute Toxicity to Aquatic Invertebrates

EC50: 9.3 mg/l (Daphnia magna (Water flea), 48 h)

Toxicity to Aquatic Plants

EC50: 6 mg/l, (Pseudokirchneriella subcapitata (green algae), 72 h)

NOEC: 1 mg/l, (Pseudokirchneriella subcapitata (green algae), 72 h)

Toxicity to Microorganisms

EC10: > 100 mg/l, (Sewage sludge, 72 h)

Additional Ecotoxicological Remarks

Very toxic to aquatic organisms.

Ecological Data for 2-Propenoic acid**Biodegradation**

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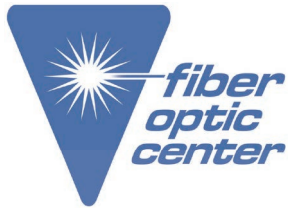
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▶ [Click here for more details on the Covestro DeSolite® DF-0009 Single Coat Optical Fiber Coating, UV Cure \(1 kg\)](#)

aerobic, 81 %, Exposure time: 28 Days

Biochemical Oxygen Demand (BOD)

315 mg/g

Chemical Oxygen Demand (COD)

1,480 mg/g

Theoretical Biological Oxygen Demand (ThBOD)

0.21

Bioaccumulation

ca. 0.78 BCF

Acute and Prolonged Toxicity to Fish

LC50: 27 mg/l (Rainbow trout (*Salmo gairdneri*), 96 h)

LC50: 222 mg/l (Zebra fish (*Brachydanio rerio*), 96 h)

Acute Toxicity to Aquatic Invertebrates

EC50: 95 mg/l (Water flea (*Daphnia magna*), 48 h)

Toxicity to Aquatic Plants

EC50: 0.04 - 0.13 mg/l, End Point: biomass (Green algae (*Scenedesmus subspicatus*), 72 h)

EC50: 1.53 mg/l, End Point: growth (other: algae, 72 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**Land transport (DOT)**

Non-Regulated

Sea transport (IMDG)

Non-Regulated

Air transport (ICAO/IATA)

Non-Regulated

15. Regulatory Information**United States Federal Regulations**

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

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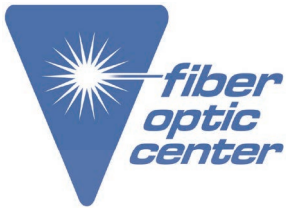
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Manufacturer Part Number:

COV-DF-0009-1KG

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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:

None

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:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
30 - 60%	Acrylated resin	CAS# is a trade secret
>=1%	Oligomer	68071-07-8
5 - 10%	2-Propenoic acid, tridecyl ester	3076-04-8
5 - 10%	N,N-Dimethylacrylamide	2680-03-7
3 - 7%	Epoxy Acrylate	55818-57-0
1 - 5%	2-Propenoic acid, dodecyl ester	2156-97-0
1 - 5%	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5
1 - 5%	Ethanone, 2,2-dimethoxy-1,2-diphenyl-	24650-42-8

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>
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0.1 - 1%	2-Hydroxyethyl Acrylate	818-61-1
0.1 - 1%	2-Propenoic acid	79-10-7

California Proposition 65 List:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<100 ppm	Methanol	67-56-1

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

Contact:	Product Safety Department
Telephone:	(412) 413-2835
Version Date:	10/31/2025
SDS Version:	1.3

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.

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