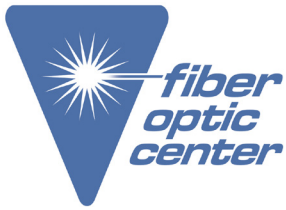


# SAFETY DATA SHEET (SDS)

**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 corrosion: Category 1A  
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 severe skin burns and eye damage.  
May cause an allergic skin reaction.  
May damage fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements: **Prevention:**  
Obtain special instructions before use.

Material Name: DeSolite DF-0009

Material Number: 50025051

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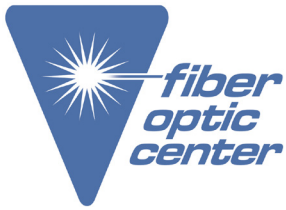
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Do not handle until all safety precautions have been read and understood.  
Do not breathe dust, mist, gas, vapors or spray.  
Wash skin and face thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear permeation resistant protective gloves and clothing. Wear eye and face protection.

**Response:**

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
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. Immediately call a doctor or emergency medical facility (i.e., 911).  
If skin irritation or rash occurs: Get medical attention.  
Wash contaminated clothing 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 toxicity:  
43 %

### 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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#### 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 (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

Material Name: DeSolite DF-0009

Material Number: 50025051

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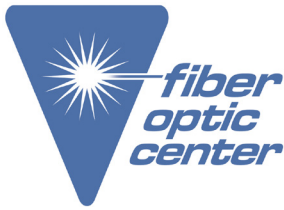
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**Handling/Storage Precautions**

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, as PVC absorbs acrylates.

**Eye Protection**

Material Name: DeSolite DF-0009

Material Number: 50025051

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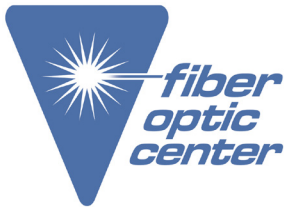
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Chemical safety goggles or safety glasses with side-shields.

**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>State of Matter:</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>Freezing Point:</b>	No Data Available
<b>Setting Point:</b>	No Data Available
<b>Melting Point:</b>	No Data Available
<b>Boiling Point:</b>	No Data Available
<b>Flash Point:</b>	> 100 °C (> 212 °F) (closed cup)
<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>	1.12 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>	insoluble
<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>Softening point:</b>	No Data Available
<b>Dynamic Viscosity:</b>	5,700 - 7,700 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>Pour point:</b>	No Data Available
<b>Self Ignition:</b>	not applicable

**10. Stability and Reactivity****Hazardous Reactions**

Material Name: DeSolite DF-0009

Material Number: 50025051

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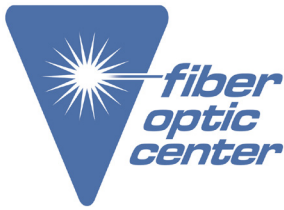
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**Product Name:**

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 \(1 kg\)](#)

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****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: 313.04 mg/kg (Calculation method)

**Acute Dermal Toxicity**

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

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

LD50: &gt; 2,000 mg/kg (rat) (OECD Test Guideline 423)

LD50: &gt; 2,000 mg/kg (rat, female)

**Acute Inhalation Toxicity**

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

**Acute Dermal Toxicity**

LD50: &gt; 2,000 mg/kg (rat) (OECD Test Guideline 402)

Material Name: DeSolite DF-0009

Material Number: 50025051

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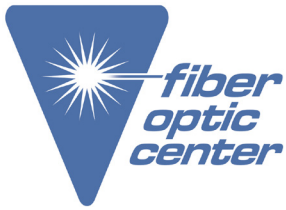
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**Sensitization**

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

**Repeated Dose Toxicity**

NOAEL: &gt; 900 mg/kg, (rat)

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

LD50: 44.7 mg/kg (rat)

LD50: 10,000 mg/kg (rat)

**Acute Inhalation Toxicity**

no data available

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

**Acute Dermal Toxicity**

no data available

**Skin Irritation**

rabbit, Corrosive

**Eye Irritation**

rabbit, Corrosive

**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: &gt; 2,000 mg/kg (rat, male/female) (OECD Test Guideline 401)

**Acute Inhalation Toxicity**

LC50: &gt; 4.9 mg/l, 4 h, dust/mist (rat, male/female) (OECD Test Guideline 403)

**Acute Dermal Toxicity**

LD50: &gt; 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

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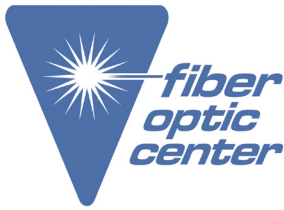
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Respiratory sensitization:  
No data available.

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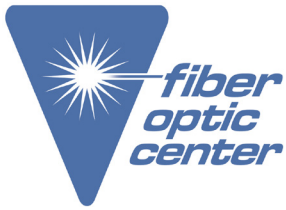
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Ames test: negative (Salmonella typhimurium, Metabolic Activation: with/without)  
In vitro mammalian cell gene mutation test: negative (Chinese hamster ovary (CHO) cells, Metabolic Activation: with/without)

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 sensitisation:: 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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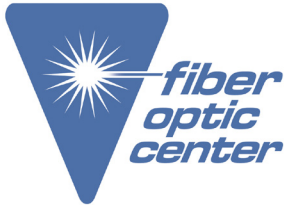
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**Developmental Toxicity/Teratogenicity**

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: &gt; 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: &gt; 1.45 mg/l, 7 h, vapour (rat, female)

**Acute Dermal Toxicity**

LD50: &gt; 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**

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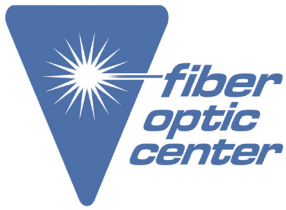
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# SAFETY DATA SHEET (SDS)

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Covestro

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COV-DF-0009-1KG

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

**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: &gt; 5.1 mg/l, vapour (rat) (OECD Test Guideline 403)

**Acute Dermal Toxicity**

LD50: &gt; 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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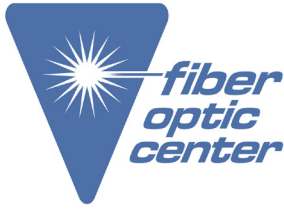
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**Other Relevant Toxicity Information**

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: &gt; 120 mg/l (Fish, 96 h)

**Acute Toxicity to Aquatic Invertebrates**

EC50: &gt; 120 mg/l (Daphnia (water flea), 48 h)

**Toxicity to Aquatic Plants**

EC50: &gt; 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: &gt; 0.082 mg/l (Cyprinus carpio (Carp), 96 h)

No toxic effects in the water-soluble range.

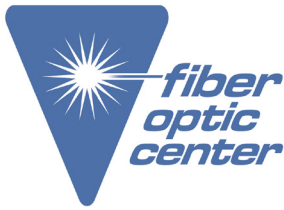
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**Acute Toxicity to Aquatic Invertebrates**

EL50: &gt; 100 mg/l (Daphnia magna (Water flea), 48 h)

**Toxicity to Aquatic Plants**

EL50: 105 mg/l, (Pseudokirchneriella subcapitata (green algae), 72 h)

**Toxicity to Microorganisms**

EC50: &gt; 1,000 mg/l, (activated sludge, 3 h)

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

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

**Bioaccumulation**

Oryzias latipes (Orange-red killifish), Exposure time: 56 d, &lt; 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: &gt; 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: &gt; 100 mg/l, (Sewage sludge, 72 h)

**Additional Ecotoxicological Remarks**

Very toxic to aquatic organisms.

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

aerobic, 81 %, Exposure time: 28 Days

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**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.

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

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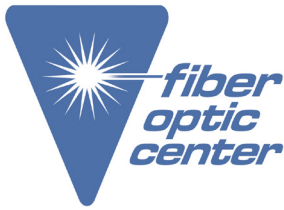
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**US. EPA CERCLA Hazardous Substances (40 CFR 302.4) Components:**

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>
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).

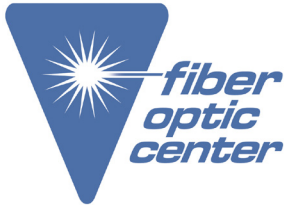
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**16. Other Information**

Contact: Product Safety Department  
Telephone: (412) 413-2835  
Version Date: 07/17/2024  
SDS Version: 1.2

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