

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Black

**Manufacturer Part Number:**

COV-751-008

▶ Click here for more details on the Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Black

## 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:** Cablelite 751-008 Black  
**Material Number:** 50025099  
**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**

Skin irritation: Category 2  
Eye irritation: Category 2A  
Skin sensitisation: Category 1  
Carcinogenicity: Category 2  
Reproductive toxicity: Category 1B

**GHS Label Elements**

Hazard pictograms:



Signal word: Danger

Hazard statements: Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May damage fertility or the unborn child.  
Suspected of causing cancer.

Precautionary statements: **Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.

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

Wash skin and face thoroughly after handling.

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

Wear permeation resistant protective gloves and clothing. Wear eye and face protection.

**Response:**

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

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical attention.

If skin irritation or rash occurs: Get medical attention.

If eye irritation persists: Get medical attention.

Take off contaminated clothing and wash 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.
15 - 40%	Epoxy Acrylate	55818-57-0
10 - 30%	1,1,1-trimethylol propane triacrylate	15625-89-5
7 - 13%	Pentaerythritol Tetracrylate	4986-89-4
5 - 10%	Tripropylene Glycol Diacrylate	42978-66-5
3 - 7%	1,6-Hexanedioldiacrylate	13048-33-4
3 - 7%	Acrylated Resin	CAS# is a trade secret
3 - 7%	Pentaerythritol Triacrylate	3524-68-3
1 - 5%	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5
1 - 5%	Carbon Black	1333-86-4
1 - 5%	Bis(2,4,6-Trimethylbenzoyl)phenylphosphine oxide	162881-26-7

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 skin irritation with symptoms of reddening, itching, and swelling., Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning.

**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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**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. Call a physician immediately.

**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.

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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

<b>8. Exposure Controls/Personal Protection</b>
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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****Carbon Black (1333-86-4)**

US. ACGIH Threshold Limit Values, as amended  
Time weighted average 3 mg/m<sup>3</sup> (Inhalable fraction.)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended  
Permissible exposure limit 3.5 mg/m<sup>3</sup>

US. ACGIH Threshold Limit Values, as amended  
Hazard Designation: Group A3 Confirmed animal carcinogen with unknown relevance to humans.

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

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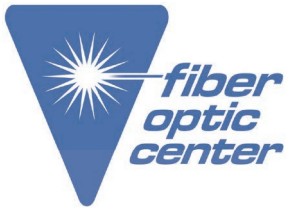
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should be available.

## 9. Physical and Chemical Properties

Physical state:	liquid
Appearance:	viscous liquid
Color:	Black
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 <sup>3</sup> @ 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:	4,100 - 4,400 mPa.s @ 20 °C (68 °F)
Kinematic Viscosity:	> 20.5 mm <sup>2</sup> /s @ 40 °C (104 °F)
Bulk Density:	No Data Available
Molecular Weight:	No Data Available
Pour point:	No Data Available
Self Ignition:	not applicable
Particle characteristics:	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**

Heat Exposure to sunlight. Protect from freezing. Product contains an inhibitor system. Must be inhibited

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to prevent hazardous polymerization. Inhibitor only effective in the presence of oxygen.

**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 skin irritation with symptoms of reddening, itching, and swelling., Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning.

**Chronic:** Suspected of causing cancer., May damage fertility or the unborn child.

**Toxicity Data for: Cablelite 751-008 Black**

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 Inhalation Toxicity**

no data available

**Acute Dermal Toxicity**

Acute toxicity estimate: 4,345 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)

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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: 1,1,1-trimethylol propane triacrylate****Acute Oral Toxicity**

LD50: &gt; 5,000 mg/kg (rat)

**Acute Inhalation Toxicity**

LC50: 0.55 mg/l, 6 h, vapour (rat, male/female)

**Acute Dermal Toxicity**LD50: 5,170 mg/kg (rabbit)  
assuming density = 1.1 g/cm<sup>3</sup>**Skin Irritation**

rabbit, OECD Test Guideline 404, irritating

**Eye Irritation**

rabbit, Draize, irritating

**Sensitization**

Skin sensitisation:: positive (Guinea pig)

**Repeated Dose Toxicity**

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

Dermal: LOAEL: 0.3 mg/kg, (rat, male/female, 5 days/week)

Dermal: NOAEL: 0.3 mg/kg, (Mouse, male/female, 5 days/week)

**Mutagenicity**

Genetic Toxicity in Vitro:

Mammalian cell - gene mutation assay: positive (Mouse lymphoma cells (L5178Y/TK), Metabolic

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Activation: with/without  
Chromosome aberration test: positive (other mammalian peripheral blood lymphocytes, Metabolic  
Activation: with/without  
Ames test: ambiguous (Salmonella typhimurium, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:  
Micronucleus Assay: negative (Mouse, male/female, oral)  
negative

**Carcinogenicity**

Mouse, male, Dermal, 80, 2 times/week  
NOAEL: 50mg/kg body weight/day

**Toxicity to Reproduction/Fertility**

Oral, daily, (rat, male/female) NOAEL (parental): 300 mg/kg, NOAEL (F1): 300 mg/kg,

**Developmental Toxicity/Teratogenicity**

rabbit, male and female, Oral, daily, NOAEL (teratogenicity):  $\geq 130$  mg/kg, NOAEL (maternal):  $\geq 130$  mg/kg,

**Toxicity Data for: Pentaerythritol Tetracrylate****Toxicity Note**

No data available for this product.

**Skin Irritation**

irritating

**Eye Irritation**

irritating

**Sensitization**

Skin sensitisation:  
Classification according to Directive 2006/121/EC Annex VI

Respiratory sensitization:  
no data available

**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)

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**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)  
negativeIn vivo micronucleus test: negative (Mouse, female, intraperitoneal)  
negative**Carcinogenicity**

Mouse, male, Dermal, 2 times/week

NOAEL: &gt; 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): &gt; 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: 1,6-Hexanedioldiacrylate****Acute Oral Toxicity**

LD50: &gt; 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**

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

**Repeated Dose Toxicity**

Oral: NOAEL: 250 mg/kg, (rat, male/female)

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**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: Acrylated Resin****Eye Irritation**

Irritating to eyes.

**Toxicity Data for: Pentaerythritol Triacrylate****Acute Oral Toxicity**

LD50: 1,830 mg/kg (rat)

**Acute Dermal Toxicity**

LD50: 4,668 mg/kg (rabbit)

**Skin Irritation**

rabbit, Moderately irritating

Draize, Moderately irritating

**Eye Irritation**

rabbit, Draize, Severely irritating

**Sensitization**

dermal: (Maximisation Test)

Skin sensitisation:: May cause sensitization by skin contact.

**Mutagenicity**

Genetic Toxicity in Vitro:

Ames: negative (Salmonella typhimurium)

Genetic Toxicity in Vivo:

Micronucleus Assay: Ambiguous. (Mouse, male, dermal)

Ambiguous.

**Carcinogenicity**

Mouse, dermal, 80 weekspositive

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**Toxicity to Reproduction/Fertility**

Reproductive effects have been observed in animal studies.

**Developmental Toxicity/Teratogenicity**

Rat, female, oral, gestation, daily, NOAEL (teratogenicity): 500 mg/kg, NOAEL (maternal): &lt; 500 mg/kg,

No Teratogenic effects observed at doses tested.

Fetotoxicity seen only with maternal toxicity.

**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: &gt; 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)

**Developmental Toxicity/Teratogenicity**

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

**Toxicity Data for: Carbon Black****Acute Oral Toxicity**

LD50: &gt; 8,000 mg/kg (rat, male/female) (OECD Test Guideline 401)

**Acute Dermal Toxicity**

LD50: &gt; 3,000 mg/kg (rabbit)

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**Manufacturer:**

Covestro

**Product Name:**

Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Black

**Manufacturer Part Number:**

COV-751-008

▶ Click here for more details on the Covestro Cablelite® 751 Optical Fiber Ink, UV Cure (1 kg) - Black

**Skin Irritation**

rabbit, Non-irritating

**Eye Irritation**

Human, non-irritant

**Sensitization**

Buehler Test: negative (Guinea pig, OECD Test Guideline 406)

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

**Repeated Dose Toxicity**

13 weeks, Inhalative: NOAEL: 0.0011 mg/kg, (rat, )

**Mutagenicity**

Genetic Toxicity in Vitro:

Salmonella/microsome test (Ames test): negative

Mammalian cell - gene mutation assay: positive (other mammalian cell line, Metabolic Activation: without)

Micronucleus test: positive (other human cell line, Metabolic Activation: without)

Genetic Toxicity in Vivo:

Other assay: negative (Mouse, male, intraperitoneal)

negative

**Carcinogenicity**

Several inhalation studies involving carbon black in female rats have shown increases in benign and malignant lung tumors. Although a large body of data on possible mechanisms of carcinogenicity in rats was considered by the IARC Working Group, it was not possible to state with confidence that the mechanisms of carcinogenicity in rats correlate to exposure in humans. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions.

**Developmental Toxicity/Teratogenicity**

rat, female, Inhalative, 10 days, daily,

**Other Relevant Toxicity Information**

May cause irritation of respiratory tract.

**Toxicity Data for: Bis(2,4,6-Trimethylbenzoyl)phenylphosphine oxide****Acute Oral Toxicity**

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

**Acute Dermal Toxicity**

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

**Skin Irritation**

Non-irritating

**Eye Irritation**

rabbit, non-irritant

**Sensitization**

dermal: sensitizer (Guinea pig)

**Repeated Dose Toxicity**

28 days, Oral: NOAEL: 1,000 mg/kg, (rat)

There were no adverse effects seen at highest dose tested.

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**Mutagenicity**

Genetic Toxicity in Vitro:

Ames: Negative results were reported in various in vitro studies.

**Carcinogenicity:**

1,1,1-trimethylol propane

IARC - Overall evaluation: 2B Possibly carcinogenic to humans.

triacrylate

Carbon Black

IARC - Overall evaluation: 2B Possibly carcinogenic to humans.

**12. Ecological Information****Ecological Data for: Cablelite 751-008 Black**

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**

LC50: &gt; 0.082 mg/l (Cyprinus carpio (Carp), 96 h)

No toxic effects in the water-soluble range.

**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)

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

**Toxicity to Microorganisms**

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

**Ecological Data for 1,1,1-trimethylol propane triacrylate****Biodegradation**

aerobic, 82 - 90 %, Exposure time: 28 d, i.e. readily biodegradable

**Bioaccumulation**

123 BCF

Accumulation in aquatic organisms is unlikely.

**Acute and Prolonged Toxicity to Fish**

LC50: 0.87 mg/l (Danio rerio (zebra fish), 96 h)

**Acute Toxicity to Aquatic Invertebrates**

LC50: 19.9 mg/l (Daphnia magna (Water flea), 48 h)

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**Toxicity to Aquatic Plants**

ErC50: 4.86 mg/l, (scenedesmus subspicatus, 72 h)

EC50: 18.8 mg/l, (Desmodesmus subspicatus (Green algae), 72 h)

EC10: 1.9 mg/l, (Desmodesmus subspicatus (Green algae), 72 h)

**Toxicity to Microorganisms**

EC20: 625 mg/l, (activated sludge, 0.5 h)

**Ecological Data for Pentaerythritol Tetracrylate****Additional Ecotoxicological Remarks**

No data available for this product.

**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: &gt; 10,000 mg/l, (Pseudomonas putida, 0.5 h)

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

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 Pentaerythritol Triacrylate****Biodegradation**

6 - 14 %, Exposure time: 28 d, i.e. not readily degradable

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**Acute and Prolonged Toxicity to Fish**

LC50: 3.2 mg/l (Cyprinus carpio (Carp), 96 h)

NOEC: 2.2 mg/l (Cyprinus carpio (Carp), 96 h)

**Acute Toxicity to Aquatic Invertebrates**

EC50: 13 mg/l (Daphnia magna (Water flea), 48 h)

NOEC: 10.3 mg/l (Daphnia magna (Water flea), 48 h)

**Toxicity to Aquatic Plants**

ErC50: 12 mg/l, End Point: Growth inhibition (Pseudokirchneriella subcapitata (green algae), 96 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 Carbon Black****Acute and Prolonged Toxicity to Fish**

LC0: > 1,000 mg/l (Danio rerio (zebra fish), 96 h)

**Acute Toxicity to Aquatic Invertebrates**

EC50: > 5,600 mg/l (Water flea (Daphnia magna), 24 h)

**Toxicity to Microorganisms**

EC0: 100 - 800 mg/l, (Activated sludge microorganisms, 3 h)

**Ecological Data for Bis(2,4,6-Trimethylbenzoyl)phenylphosphine oxide****Biodegradation**

Exposure time: 28 d, Not readily biodegradable.

**Bioaccumulation**

Cyprinus carpio (Carp), < 5 BCF

**Acute and Prolonged Toxicity to Fish**

LC50: > 90 ppm (Zebra fish (Brachydanio rerio), 96 h)

No harmful effect at saturation concentration.

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**Acute Toxicity to Aquatic Invertebrates**

EC50: > 1.175 mg/l (Water flea (Daphnia magna), 48 h)  
No effects seen at saturation concentration.

**Toxicity to Aquatic Plants**

EC50: 0.26 mg/l, (Green algae (Scenedesmus subspicatus), 72 h)  
No effects seen at saturation concentration.

**Toxicity to Microorganisms**

EC50: > 100 mg/l, (Wastewater bacteria)

**13. Disposal Considerations****Waste Disposal Method**

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

**Empty Container Precautions**

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

**14. Transportation Information****Land transport (DOT)**

Non-Regulated

**Sea transport (IMDG)****Proper Shipping Name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (contains BADGE epoxy acrylate, Trimethylolpropane  
triacylate)

9

**Hazard Class or Division:****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  
BADGE epoxy acrylate, Trimethylolpropane triacylate)

9

**Hazard Class or Division:****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.

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**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>
15 - 40%	Epoxy Acrylate	55818-57-0
10 - 30%	1,1,1-trimethylol propane triacrylate	15625-89-5
>=1%	Aliphatic urethane acrylate	CAS# is a trade secret
7 - 13%	Pentaerythritol Tetraacrylate	4986-89-4
5 - 10%	Tripropylene Glycol Diacrylate	42978-66-5
3 - 7%	1,6-Hexanedioldiacrylate	13048-33-4
3 - 7%	Acrylated Resin	CAS# is a trade secret
3 - 7%	Pentaerythritol Triacrylate	3524-68-3
1 - 5%	2-Benzoyl-2-hydroxypropane	7473-98-5
1 - 5%	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5
1 - 5%	Carbon Black	1333-86-4
1 - 5%	Bis(2,4,6-Trimethylbenzoyl)phenylphosphine oxide	162881-26-7

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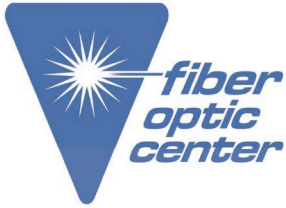
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**New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:**

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
1 - 5%	Carbon Black	1333-86-4

**California Proposition 65 List:**

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
10 - 30%	1,1,1-trimethylol propane triacrylate	15625-89-5
1 - 5%	Carbon Black	1333-86-4
<100 ppm	Toluene	108-88-3

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

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

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

**16. Other Information**

The method of hazard communication for Covestro LLC is comprised of product labels and safety data sheets. Safety data sheets for all of our products and general product declarations are available for download at [www.productsafetyfirst.covestro.com](http://www.productsafetyfirst.covestro.com).

Contact: Product Safety Department  
Telephone: (412) 413-2835  
Version Date: 10/31/2025  
SDS Version: 1.6

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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