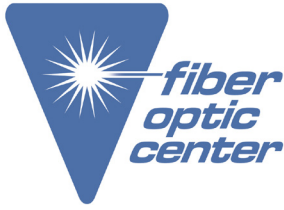


SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

Product Name:

Covestro Desolite® 3471-1-129A Primary Optical Fiber Coating, UV Cure (10 kg)

Manufacturer Part Number:

COV-3471-1-129A-10KG

▶ [Click here for more details on the Covestro Desolite® 3471-1-129A Primary Optical Fiber Coating, UV Cure \(10 kg\)](#)

SAFETY DATA SHEET



1. Identification

Covestro LLC
1 Covestro Circle
Pittsburgh, PA 15205
USA

TRANSPORTATION EMERGENCY

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

NON-TRANSPORTATION

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

Product Name: DeSolite 3471-1-129A
Material Number: 50025032
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
Reproductive toxicity (Oral): Category 1B
Specific target organ toxicity - repeated exposure (Inhalation): Category 1 (Liver)

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 if swallowed.
Causes damage to organs (Liver) through prolonged or repeated exposure if inhaled.

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

Material Name: DeSolite 3471-1-129A

Material Number: 50025032

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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 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 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.
10 - 30%	Ethoxylated nonyl phenol acrylate	678991-31-6
7 - 13%	Isobornyl acrylate ester	5888-33-5
5 - 10%	1-Vinylhexahydro-2H-azepin-2-one	2235-00-9
3 - 7%	2-Propenoic acid, dodecyl ester	2156-97-0
1 - 5%	Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	75980-60-8
0.1 - 1%	1-Propanethiol, 3-(trimethoxysilyl)-	4420-74-0
0.1 - 1%	Ethoxylated Nonylphenol	68412-54-4
0.1 - 1%	Caprolactam	105-60-2

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

4. First Aid Measures

Most Important Symptom(s)/Effect(s)

Acute: May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash., Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning., Causes skin irritation with symptoms of reddening, itching, and swelling.

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.

Material Name: DeSolite 3471-1-129A

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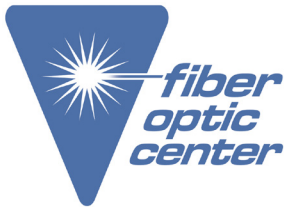
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Skin Contact

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. If a person vomits when lying on his back, place him in the recovery position. Get medical attention.

5. Firefighting Measures

Suitable Extinguishing Media: All extinguishing media are suitable.

Unsuitable Extinguishing Media No Data Available

Fire Fighting Procedure

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

Hazardous Decomposition Products

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

Unusual Fire/Explosion Hazards

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

6. Accidental Release Measures**Spill and Leak Procedures**

Cleanup personnel must use appropriate personal protective equipment. Dike or dam spilled material and control further spillage, if possible. Prevent from entering open drains and waterways. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal.

7. Handling and Storage**Handling/Storage Precautions**

Avoid breathing dust, vapor, or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use.

Storage Temperature

Minimum: 15 °C (59 °F)

Maximum: 30 °C (86 °F)

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.

Material Name: DeSolite 3471-1-129A

Material Number: 50025032

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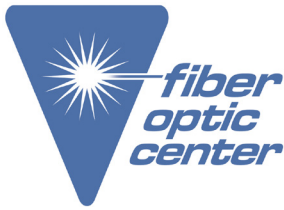
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Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Substances to Avoid

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

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**Caprolactam (105-60-2)**

US. ACGIH Threshold Limit Values, as amended
Time weighted average 5 mg/m³ (Inhalable fraction and vapor.)

US. ACGIH Threshold Limit Values, as amended
Hazard Designation: Group A5 Not suspected 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

Chemical safety goggles or safety glasses with side-shields.

Skin Protection

Permeation resistant clothing, Gloves, long sleeved shirts and pants.

Additional Protective Measures

Ultraviolet (UV) light source is used for curing this product. UV light can be hazardous to unprotected skin and eyes. Protective eyewear should always be worn when working in UV curing areas. Skin protection such as long sleeves, long pants, and gloves should be worn when UV lights are being used. Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

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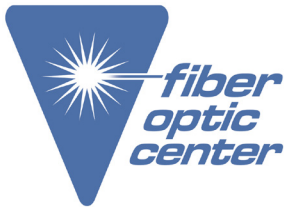
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9. Physical and Chemical Properties

State of Matter:	liquid
Appearance:	liquid
Color:	Clear to turbid
Odor:	characteristic
Odor Threshold:	No Data Available
pH:	No Data Available
Melting Point:	
Boiling Point:	
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:	0.9 g/cm ³ @ 20 °C (68 °F)
Relative Vapor Density:	No Data Available
Specific Gravity:	No Data Available
Solubility in Water:	No Data Available
Partition Coefficient: n-octanol/water:	No Data Available
Auto-ignition Temperature:	No Data Available
Decomposition Temperature:	Stable under recommended storage conditions. The product is chemically stable.
Unblocking Temperature:	No Data Available
Dynamic Viscosity:	5,000 - 8,000 mPa.s @ 20 °C (68 °F)
Kinematic Viscosity:	> 20.5 mm ² /s @ 40 °C (104 °F) > 4166 mm ² /s @ 20 °C (68 °F)
Bulk Density:	No Data Available
Molecular Weight:	No Data Available
Self Ignition:	not applicable

10. Stability and Reactivity

Hazardous Reactions

No hazardous reactions when stored and handled correctly.

Stability

Stable

Materials to Avoid

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

Conditions to Avoid

Exposure to sunlight. Product contains an inhibitor system. Must be inhibited to prevent hazardous polymerization. Inhibitor only effective in the presence of oxygen. Heat, flames and sparks.

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

Material Name: DeSolite 3471-1-129A

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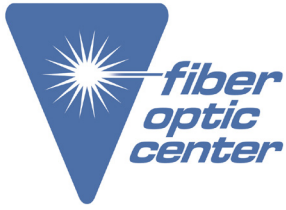
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11. Toxicological Information

Likely Routes of Exposure: Skin Contact
Eye Contact
Ingestion
Inhalation

Health Effects and Symptoms

Acute: May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash., Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning., Causes skin irritation with symptoms of reddening, itching, and swelling.

Chronic: May damage fertility or the unborn child., May cause liver damage.

Toxicity Data for: DeSolite 3471-1-129A

Data on the product is not available.

Please find the data available for the components.

Acute Oral Toxicity

Acute toxicity estimate: 3,382 mg/kg (Calculation method)

Acute Dermal Toxicity

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

Toxicity Data for: Ethoxylated nonyl phenol acrylate**Acute Oral Toxicity**

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

Skin Irritation

rabbit, Skin irritation

Eye Irritation

irritating

Sensitization

Skin sensitisation: negative (Guinea pig)

Respiratory sensitization:

No data available.

Repeated Dose Toxicity

NOAEL: 40 mg/kg, (rat, male/female)

NOAEL: 200 mg/kg, (rat, male/female)

Toxicity Data for: Isobornyl acrylate ester**Acute Oral Toxicity**

LD50: 4,890 mg/kg (rat)

Acute Dermal Toxicity

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

Material Name: DeSolite 3471-1-129A

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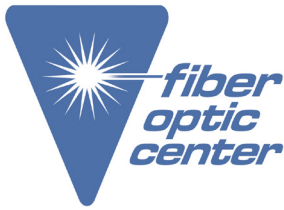
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Skin Irritation

rabbit, Draize Test, Moderately irritating
Moderate skin irritation

Eye Irritation

rabbit, Draize, Mild eye irritation

Sensitization

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

Repeated Dose Toxicity

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

Mutagenicity

Genetic Toxicity in Vitro:

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

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

In vitro mammalian cell gene mutation test: negative (Chinese hamster V79 cell line, Metabolic Activation: with/without)

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

Carcinogenicity

Based on available data, the classification criteria are not met.

Toxicity to Reproduction/Fertility

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

Oral, daily, (rat, male/female) NOAEL (parental): 100 mg/kg, NOAEL (F1): 100 mg/kg,

Based on available data, the classification criteria are not met.

Developmental Toxicity/Teratogenicity

rat, male/female, Oral, NOAEL (teratogenicity): 500 mg/kg, NOAEL (maternal): 100 mg/kg,

Based on available data, the classification criteria are not met.

Other Relevant Toxicity Information

May cause irritation of respiratory tract.

Toxicity Data for: 1-Vinylhexahydro-2H-azepin-2-one**Acute Oral Toxicity**

LD50: 1,114 mg/kg (rat)

Acute Inhalation Toxicity

LC50: > 1.6 mg/l, 8 h, vapour (rat)

Acute Dermal Toxicity

LD50: 1,700 mg/kg (rabbit)

Skin Irritation

rabbit, Non-irritating

Eye Irritation

rabbit, Irritating to eyes.

Sensitization

Material Name: DeSolite 3471-1-129A

Material Number: 50025032

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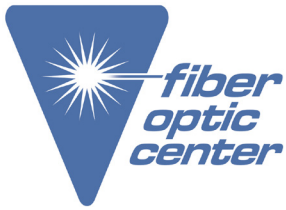
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Local lymph node assay (LLNA): sensitizer

Repeated Dose Toxicity

28 d, oral: NOAEL: 50 mg/kg, (Rat)

28 d, Inhalation: NOAEL: 58 mg/m3, (Rat)

Mutagenicity

Genetic Toxicity in Vitro:

gene mutation test: negative (Bacteria)

Chromosome aberration test: negative (Chinese hamster fibroblasts)

gene mutation test: negative (Chinese hamster fibroblasts)

Toxicity to Reproduction/Fertility

Two-generation study, oral, (Rat) NOAEL (parental): 500 mg/kg,

Developmental Toxicity/Teratogenicity

Rat, oral, NOAEL (teratogenicity): 1,000 mg/kg, NOAEL (maternal): 100 mg/kg,

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)

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

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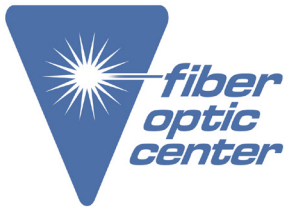
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negative (rat,)
negative

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: Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-**Acute Oral Toxicity**

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

Acute Dermal Toxicity

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

Skin Irritation

rabbit, Non-irritating

Eye Irritation

rabbit, Non-irritating

Sensitization

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

Repeated Dose Toxicity

90 Days, oral: NOAEL: 100 mg/kg, (Rat)

Mutagenicity

Genetic Toxicity in Vitro:

gene mutation test: negative (Bacteria, Metabolic Activation: with/without)

In vitro mammalian cell gene mutation test: negative (Chinese hamster lung cells)

Chromosome aberration test in vitro: negative (Chinese hamster lung cells)

Toxicity to Reproduction/Fertility

oral, (Rat) NOAEL (parental): 200 mg/kg, NOAEL (F2): 60 mg/kg, Reproductive effects have been observed in animal studies.

Paternal Effects - Spermatogenesis (including genetic material, sperm morphology, motility, and count), testes, epididymis, sperm duct

Developmental Toxicity/Teratogenicity

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

Toxicity Data for: 1-Propanethiol, 3-(trimethoxysilyl)-**Acute Oral Toxicity**

LD50: 2,380 mg/kg (rat)

Acute Dermal Toxicity

LD50: 2,137.86 mg/kg (rabbit)

Skin Irritation

rabbit, non-irritant

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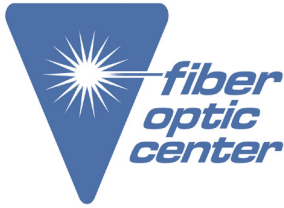
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Eye Irritation

Slightly irritating

Sensitization

Skin sensitisation: positive (Guinea pig, OECD Test Guideline 406)

Toxicity Data for: Ethoxylated Nonylphenol**Acute Oral Toxicity**

LD50: > 15,000 mg/kg (rat, male)

Acute Dermal Toxicity

LD50: 2,830 mg/kg (rabbit)

Skin Irritation

rabbit, Acute Dermal Irritation, Exposure Time: 24 h, irritating

Eye Irritation

rabbit, OECD Test Guideline 405, Severely irritating

Sensitization

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

Repeated Dose Toxicity

90 Days, oral: NOAEL: < 200 mg/kg, (Rat,)

90 Days, oral: NOAEL: < 3 mg/kg, (Dog,)

Mutagenicity

Genetic Toxicity in Vitro:

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

Mammalian cell - gene mutation assay: negative (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without)

Toxicity Data for: Caprolactam**Acute Oral Toxicity**

LD50: 1,876 mg/kg (rat, male) (Directive 84/449/EEC, B.1)

LD50: 1,475 mg/kg (rat, female) (Directive 84/449/EEC, B.1)

Acute Inhalation Toxicity

LC50: 8.16 mg/l, 4 h, dust/mist (rat)

Acute Dermal Toxicity

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

Skin Irritation

Human, irritating

Eye Irritation

rabbit, Draize, Moderately irritating

Sensitization

dermal: ambiguous (Guinea pig, Buehler)

Material Name: DeSolite 3471-1-129A

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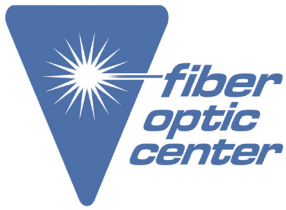
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SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

Product Name:

Covestro Desolite® 3471-1-129A Primary Optical Fiber Coating, UV Cure (10 kg)

Manufacturer Part Number:

COV-3471-1-129A-10KG

▶ [Click here for more details on the Covestro Desolite® 3471-1-129A Primary Optical Fiber Coating, UV Cure \(10 kg\)](#)

dermal: non-sensitizer (Guinea pig, Maximization Test)

Respiratory sensitization: negative (Guinea pig)

Skin sensitisation: non-sensitizer (Guinea pig, Maximization Test)

Repeated Dose Toxicity

90 Days, oral: NOAEL: 41.7 mg/kg, (Rat)

75 Days, inhalation: NOAEL: 0.011 mg/l, (Rat)

Mutagenicity

Genetic Toxicity in Vitro:

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

Genetic Toxicity in Vivo:

Micronucleus Assay: negative (Mouse, male, intraperitoneal)
negative

Carcinogenicity

Mouse, Male/Female, oral, 2 Years negative

Toxicity to Reproduction/Fertility

Three generation study, oral, ad libitum, (Rat) NOAEL (F1): 670 mg/kg, No effects on Reproductive parameters observed at doses tested. Three generation study, oral, daily, (Rat, male/female) NOAEL (parental): 500 mg/kg, NOAEL (F1): 100 mg/kg, NOAEL (F2): 100 mg/kg, No effects on Reproductive parameters observed at doses tested.

Developmental Toxicity/Teratogenicity

Rat, Female, oral, daily, NOAEL (teratogenicity): 500 mg/kg, Fetotoxicity has been observed in animal studies. rabbit, Female, oral, daily, NOAEL (teratogenicity): > 250 mg/kg, NOAEL (maternal): 150 mg/kg, Fetotoxicity has been observed in animal studies.

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 3471-1-129A**

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

Ecological Data for Ethoxylated nonyl phenol acrylate**Acute and Prolonged Toxicity to Fish**

No data available.

Acute Toxicity to Aquatic Invertebrates

No data available.

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Material Number: 50025032

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Data is subject to change without notice.

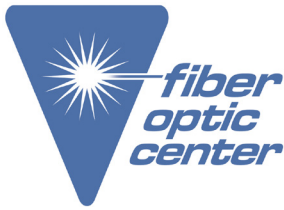
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Toxicity to Aquatic Plants

No data available.

Ecological Data for Isobornyl acrylate ester**Biodegradation**

aerobic, 73.9 %, Exposure time: 60 d, i.e. not readily biodegradable (10 day time window criterion is not met)

aerobic, 57 %, Exposure time: 28 d, i.e. not readily degradable

Bioaccumulation

Danio rerio (zebra fish), Exposure time: 56 h, 37 BCF

Studies of a comparable product.

Acute and Prolonged Toxicity to Fish

LC50: 0.704 mg/l (Danio rerio (zebra fish), 96 h)

Toxicity to Aquatic Plants

EC50: 1.98 mg/l, (Pseudokirchneriella subcapitata (green algae), 72 h)

NOEC: 0.405 mg/l, (Pseudokirchneriella subcapitata (green algae), 72 h)

Ecological Data for Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-**Acute and Prolonged Toxicity to Fish**

LC50: 10 - 100 mg/l (Golden orfe (Leuciscus idus), 96 h)

Acute Toxicity to Aquatic Invertebrates

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

Toxicity to Aquatic Plants

EC50: 10 - 100 mg/l, (72 h)

Toxicity to Microorganisms

EC50: > 500 mg/l, (Wastewater bacteria, 17 h)

Ecological Data for Ethoxylated Nonylphenol**Biodegradation**

58.7 %, Exposure time: 35 d, i.e. not readily degradable

Studies of a comparable product.

Acute and Prolonged Toxicity to Fish

LC50: 0.323 mg/l (Pimephales promelas (fathead minnow), 96 h)

Studies of a comparable product.

Acute Toxicity to Aquatic Invertebrates

LC50: 0.716 mg/l (Ceriodaphnia dubia, 48 h)

Studies of a comparable product.

Toxicity to Aquatic Plants

EC10: 1.22 mg/l, End Point: Growth inhibition (Pseudokirchneriella subcapitata (green algae), 72 h)

Studies of a comparable product.

Toxicity to Microorganisms

EC20: > 1,000 mg/l, (activated sludge, 3 h)

Studies of a comparable product.

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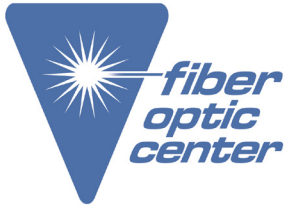
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Ecological Data for Caprolactam**Biodegradation**

Aerobic, 82 %, Exposure time: 14 Days

Aerobic, 78 %, Exposure time: 21 Days

Readily biodegradable.

Acute and Prolonged Toxicity to Fish

LC50: 930 mg/l (Bluegill (Lepomis macrochirus), 96 h)

LC50: 1,400 mg/l (Fathead minnow (Pimephales promelas), 96 h)

Acute Toxicity to Aquatic Invertebrates

EC50: > 500 mg/l (Water flea (Daphnia magna), 48 h)

Toxicity to Aquatic Plants

EC50: 130 mg/l, (Green algae (Scenedesmus subspicatus), 72 h)

Toxicity to Microorganisms

EC50: 4,200 mg/l, (Pseudomonas putida, 17 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)**Proper Shipping Name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Isobornyl Acrylate, Ethoxylated Isononylphenol)

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 Isobornyl Acrylate, Ethoxylated Isononylphenol)

9

Hazard Class or Division:**UN number:**

UN3082

Packaging Group:

III

Hazard Label(s):

MISCELLANEOUS

Marine pollutant:

Marine pollutant

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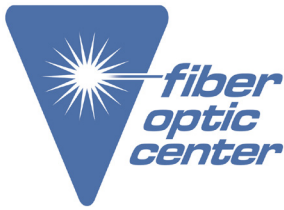
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15. Regulatory Information**United States Federal Regulations****US. Toxic Substances Control Act:** Listed on the Active Portion of the TSCA Inventory.

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

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:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<1 ppm	Hexachlorobenzene	118-74-1

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>
>=1%	Oligomer	CAS# is a trade secret
10 - 30%	Ethoxylated nonyl phenol acrylate	678991-31-6
7 - 13%	Isobornyl acrylate ester	5888-33-5
5 - 10%	1-Vinylhexahydro-2H-azepin-2-one	2235-00-9
3 - 7%	2-Propenoic acid, dodecyl ester	2156-97-0
1 - 5%	Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	75980-60-8

California Proposition 65 List:

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
<0.1%	Toluene	108-88-3
<100 ppm	Methanol	67-56-1
<1 ppm	Hexachlorobenzene	118-74-1

CFATS (Chemical Facility Anti-Terrorism Standards) Chemicals

To the best of our knowledge, this product does not contain Appendix A Chemicals of Interest (COI), 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).

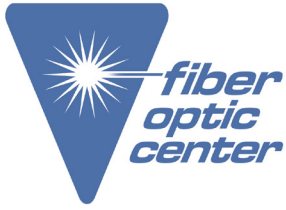
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Based on information provided by our suppliers, this product is considered “DRC Conflict Free” as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7-40-10; Date: 2012-08-22).

16. Other Information

Contact:	Product Safety Department
Telephone:	(412) 413-2835
Version Date:	10/02/2024
SDS Version:	1.4

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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