

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DP-1900 Primary Optical Fiber Coating, UV and LED Cure (10 kg)

**Manufacturer Part Number:**

COV-DP-1900-10KG

► Click here for more details on the Covestro DeSolite® DP-1900 Primary Optical Fiber Coating, UV and LED Cure (10 kg)

## SAFETY DATA SHEET

**1. Identification**

**Covestro LLC**  
1 Covestro Circle  
Pittsburgh, PA 15205  
USA

**TRANSPORTATION EMERGENCY**

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

**NON-TRANSPORTATION**

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

**Product Name:**

DeSolite DP-1900

**Material Number:**

86700891

**Chemical Family:**

Urethane Acrylate

**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 sensitisation: Category 1  
Carcinogenicity: Category 2  
Reproductive toxicity (Oral): Category 1B  
Reproductive toxicity: Category 2  
Specific target organ toxicity - repeated exposure (Inhalation): Category 1 (Liver)

**GHS Label Elements**

Hazard pictograms:



Signal word:

Danger

Hazard statements:

May cause an allergic skin reaction.  
May damage fertility or the unborn child if swallowed.  
Suspected of damaging fertility or the unborn child.  
Causes damage to organs (Liver) through prolonged or repeated exposure if inhaled.  
Suspected of causing cancer.

Precautionary statements:

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

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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 exposed or concerned: Get medical attention.  
If skin irritation or rash occurs: Get medical attention.  
Take off contaminated clothing and wash it before reuse.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

**3. Composition/Information on Ingredients****Hazardous Components**

Concentration	Components	CAS-No.
1 - 5%	Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	75980-60-8
10 - 30%	2-phenoxyethyl acrylate	48145-04-6
1 - 5%	1-Vinylhexahydro-2H-azepin-2-one	2235-00-9
0.1 - 1%	1-Propanethiol, 3-(trimethoxysilyl)-	4420-74-0
0.1 - 1%	1,1,1-trimethylol propane triacrylate	15625-89-5
0.1 - 1%	Trimethylolpropane Tris(3-mercaptopropionate)	33007-83-9

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

**4. First Aid Measures****Most Important Symptom(s)/Effect(s)**

**Acute:** May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash.

**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

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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****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

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**8. Exposure Controls/Personal Protection**

The recommendations in this section should not be a substitute for a personal protective equipment (PPE) assessment performed by the employer as required by 29 CFR 1910 Subpart I.

**Exposure Limits**

Country specific exposure limits have not been established or are not applicable

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

**Industrial Hygiene/Ventilation Measures**

General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines.

**Respiratory Protection**

Respiratory protection is recommended in insufficiently ventilated working areas and during heating or spraying. For components with occupational exposure limits, when workers are facing concentrations above those limits, they must use appropriate certified respirators.

**Hand Protection**

Ensure gloves remain in good condition during use and replace if any deterioration is observed. Permeation resistant gloves., Nitrile rubber gloves., Avoid natural rubber gloves., Do not wear PVC gloves, as PVC absorbs acrylates.

**Eye Protection**

Chemical safety goggles or safety glasses with side-shields.

**Skin Protection**

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

**Additional Protective Measures**

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

**9. Physical and Chemical Properties**

Physical state:	liquid
Appearance:	liquid
Color:	Colorless
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)

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<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>	1.06 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>	No Data Available
<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>Unlocking Temperature:</b>	No Data Available
<b>Softening point:</b>	No Data Available
<b>Dynamic Viscosity:</b>	6,500 mPa.s @ 20 °C (68 °F)
<b>Kinematic Viscosity:</b>	> 6132 cSt @ 20 °C (68 °F) > 20.5 cSt @ 40 °C (104 °F)
<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
<b>Particle characteristics:</b>	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**

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**

<b>Likely Routes of Exposure:</b>	Skin Contact Eye Contact Ingestion Inhalation
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**Health Effects and Symptoms**

**Acute:** May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash.

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

**Toxicity Data for: DeSolite DP-1900**

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 Dermal Toxicity**

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

**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: 2-phenoxyethyl acrylate****Acute Oral Toxicity**

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

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**Acute Inhalation Toxicity**

no data available

**Acute Dermal Toxicity**

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

**Skin Irritation**

rabbit, non-irritant

**Eye Irritation**

rabbit, Non-irritating

**Sensitization**

Skin sensitisation according to Magnusson/Kligmann (maximizing test):: positive (Guinea pig, OECD Test Guideline 406)

**Repeated Dose Toxicity**

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

Oral: NOAEL: 350 mg/kg, (rat, male/female)

**Mutagenicity**

Genetic Toxicity in Vitro:

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

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

In vitro mammalian cell gene mutation test: negative (mouse lymphoma cells, Metabolic Activation: with/without)

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

**Toxicity to Reproduction/Fertility**

Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test, Oral, (rat, male/female)

**Developmental Toxicity/Teratogenicity**

rat, Oral, NOAEL (teratogenicity): 600, NOAEL (maternal): 600

**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**

Local lymph node assay (LLNA): sensitizer

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**Repeated Dose Toxicity**

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

28 d, Inhalation: NOAEL: 58 mg/m<sup>3</sup>, (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: 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

**Eye Irritation**

Slightly irritating

**Sensitization**

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

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

LD50: > 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**

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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 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): >= 130 mg/kg, NOAEL (maternal): >= 130 mg/kg,

**Toxicity Data for: Trimethylolpropane Tris(3-mercaptopropionate)****Acute Oral Toxicity**

LD50: 1,000 - 2,000 mg/kg (rat)

**Acute Inhalation Toxicity**

LC50: > 3,363, 4 h, aerosol (rat)

**Acute Dermal Toxicity**

no data available

**Skin Irritation**

rabbit, non-irritant

**Eye Irritation**

rabbit, Non-irritating

**Sensitization**

Local lymph node assay (LLNA): sensitizer

**Repeated Dose Toxicity**

90 d, Oral: NOAEL: 20 mg/kg, (rat)

**Mutagenicity**

Genetic Toxicity in Vitro:

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gene mutation test: negative (Bacteria)  
Chromosome aberration test: negative (Chinese hamster fibroblasts)  
gene mutation test: negative (mouse lymphoma cells)

**Toxicity to Reproduction/Fertility**

Oral, (rat) NOAEL (parental): 20 mg/kg,

**Developmental Toxicity/Teratogenicity**

rat, Oral, NOAEL (maternal): 15 mg/kg,

**Carcinogenicity:**

1,1,1-trimethylol propane  
triacrylate

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

**12. Ecological Information****Ecological Data for: DeSolite DP-1900**

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

**Ecological Data for 2-phenoxyethyl acrylate****Biodegradation**

aerobic, 22 %, Exposure time: 28 d, i.e. readily biodegradable

**Bioaccumulation**

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

**Acute and Prolonged Toxicity to Fish**

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

**Acute Toxicity to Aquatic Invertebrates**

EC50: 1.21 mg/l (Daphnia magna (Water flea), 48 h)

**Toxicity to Aquatic Plants**

EC50: 4.4 mg/l, (Desmodesmus subspicatus (Green algae), 72 h)

EC10: 0.71 mg/l, (Desmodesmus subspicatus (Green algae), 72 h)

**Toxicity to Microorganisms**

EC50: 177 mg/l, (activated sludge)

**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)

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**Ecological Data for 1,1,1-trimethyol 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)

**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)

**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.

**SNUR Components**

No substances are subject to Section 5 Significant New Use Rule (SNUR) requirements.

Material Name: DeSolite DP-1900

Material Number: 86700891

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Contact the professionals at Fiber Optic Center for a quote or to get more details.

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Data is subject to change without notice.  
FOC last update 1/6/2026.



# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

**Product Name:**

Covestro DeSolite® DP-1900 Primary Optical Fiber Coating, UV and LED Cure (10 kg)

**Manufacturer Part Number:**

COV-DP-1900-10KG

► Click here for more details on the Covestro DeSolite® DP-1900 Primary Optical Fiber Coating, UV and LED Cure (10 kg)

<100 ppm	Hydrogen chloride	7647-01-0
<100 ppm	Acetaldehyde	75-07-0

**California Proposition 65 List:**

<u>Concentration</u>	<u>Components</u>	<u>CAS-No.</u>
0.1 - 1%	1,1,1-trimethylol propane triacrylate	15625-89-5
<100 ppm	Furan	110-00-9
<100 ppm	Methanol	67-56-1
<100 ppm	Propylene Oxide	75-56-9
<100 ppm	Acetaldehyde	75-07-0

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

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

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

**16. Other Information**

Contact:	Product Safety Department
Telephone:	(412) 413-2835
Version Date:	10/31/2025
SDS Version:	1.4

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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