Manufacturer:
Covestro

Product Name:
Covestro Cablelite® COV-950-706 Optical Fiber Coating (Matrix Coating), UV Cure (10 kg).

Manufacturer Part Number:
COV-950-706-10KG

This Safety Data Sheet (SDS) has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (CFR 29 1910.1200).

SAFETY DATA SHEET

United States

Cablelite® 950-706

Section 1. Identification

GHS product identifier	:	Cablelite® 950-706
Other means of identification	:	Not available.
Product type	:	Liquid.
Material uses	:	UV-curable coatings, inks and matrix materials.
Supplier	:	Covestro Desotech Inc. 1122 St Charles Street Elgin IL 60120 Tel: +1 (847) 697-0400
e-mail address of person responsible for this SDS	:	resins.SDS@covestro.com
Emergency telephone number	:	+1-800-424-9300

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture :
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2B
SKIN SENSITIZATION - Category 1
TOXIC TO REPRODUCTION - Category 1B

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements :
H315 + H320 - Causes skin and eye irritation.
H317 - May cause an allergic skin reaction.
H360 - May damage fertility or the unborn child.

Precautionary statements

Prevention :
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves, protective clothing and eye or face protection.
P261 - Avoid breathing vapor.
P264 - Wash hands thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.

Response :
P308 + P313 - IF exposed or concerned: Get medical advice or attention.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice or attention.

Storage : P405 - Store locked up.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Data is subject to change without notice.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number : Not applicable.

Ingredient name	%	CAS number
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate	25 - 50	55818-57-0
2-Propenoic acid, 2-phenoxyethyl ester	5 - 10	48145-04-6
2-Propenoic acid, (1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, rel-	5 - 10	5888-33-5
2-Propenoic acid, 1,1'-(1,6-hexanediyl) ester	5 - 10	13048-33-4
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester	5 - 10	42978-66-5
Methanone, (diphenylphosphinyl)(2,4,6-trimethylphenyl)-	0.1-1	75980-60-8
Phenol, 4-methoxy-	0.1-1	150-76-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes eye irritation.

Inhalation : No known significant effects or critical hazards.

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COV-950-706-10KG

Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	:	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
Specific hazards arising from the chemical	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide Halogenated compounds phosphorous oxides (dense) black smoke aldehydes organic acids halogenated compounds
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 15 to 30°C (59 to 86°F). Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store in original container, protected from direct sunlight. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Keep away from heat and direct sunlight. Inhibitor only effective in the presence of oxygen.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Phenol, 4,4′-(1-methylethylidene)bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate	None.
2-Propenoic acid, 2-phenoxyethyl ester	None.
2-Propenoic acid, (1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, rel-	None.
2-Propenoic acid, 1,1′-(1,6-hexanediyl) ester	**AIHA WEEL (United States, 7/2018). Skin sensitizer.** TWA: 1 mg/m³ 8 hours.
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester	None.
Methanone, (diphenylphosphinyl)(2,4,6-trimethylphenyl)-	None.
Phenol, 4-methoxy-	**ACGIH TLV (United States, 3/2020).** TWA: 5 mg/m³ 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 5 mg/m³ 8 hours. **NIOSH REL (United States, 10/2016).** TWA: 5 mg/m³ 10 hours.

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): (0.12 mm) Nitrile gloves.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Remarks	:	Do not use PVC gloves. PVC absorbs acrylics. Do not use natural rubber gloves. Replace damaged gloves.

Section 9. Physical and chemical properties

Appearance

Physical state	:	Liquid.
Color	:	Colorless to Amber. [Transparent]
Odor	:	Characteristic.
Odor threshold	:	Not available.
pH	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Closed cup: >199.4°F (>93°C) [Closed cup , ISO 1523]
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1.05 (Water = 1)
Density (g/cm³)	:	1.05 g/cm³ (23°C)
Bulk density	:	Not available.
Solubility	:	Insoluble in the following materials: cold water and hot water.
Solubility in water	:	Not available.
Solubility at room temperature	:	Not available.
Partition coefficient: n-octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Dynamic (room temperature): 3990 to 5750 mPa·s (3990 to 5750 cP) Kinematic (room temperature): >38 cm^2/s (>3800 cSt) Kinematic (40°C (104°F)): >0.205 cm^2/s (>20.5 cSt)
Remarks	:	Soluble in the following materials: organic solvents

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable. Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from heat and direct sunlight. Keep away from flames or sparks. May polymerize on exposure to light. During heating, spontaneous polymerisation can occur.

Incompatible materials	:	Free radical initiators, peroxides, strongly alkaline and strongly acidic materials or reactive metals. Contact with these could result in uncontrolled exothermic polymerization.
Hazardous decomposition products	:	No specific data.
Remarks	:	Keep away from heat and direct sunlight. Keep away from flames or sparks. Keep away from: Free radical initiators, peroxides, strongly alkaline and strongly acidic materials or reactive metals. Contact with these could result in uncontrolled exothermic polymerization.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Phenol, 4,4′-(1-methylethylidene)bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
2-Propenoic acid, 2-phenoxyethyl ester	LD50 Oral	Rat - Female	5000 mg/kg	-
2-Propenoic acid, (1R,2R,4R) -1,7,7-trimethylbicyclo[2.2.1] hept-2-yl ester, rel-	LD50 Dermal	Rabbit	>3000 mg/kg LD0 = 3000 mg/kg	-
	LD50 Oral	Rat - Male	4350 mg/kg	-
2-Propenoic acid, 1,1′-(1,6-hexanediyl) ester	LC0 Inhalation Vapor	Rat - Male, Female	0.41 mg/l Air	7 hours
	LD50 Dermal	Rabbit	3650 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester	LC0 Inhalation Vapor	Rat - Male, Female	0.000545 mg/l	7 hours
	LD50 Dermal	Rat - Female	>2000 mg/kg (LD0 = 2000 mg/ kg. Mortality : Not applicable)	-
	LD50 Oral	Rat - Female	>2000 mg/kg (LD0 = 2000 mg/ kg. Mortality : Not applicable)	-
Methanone, (diphenylphosphinyl) (2,4,6-trimethylphenyl)-	LD50 Dermal	Rat - Male, Female	>2000 mg/kg (LD0 = 2000 mg/ kg)	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg (LD0 = 5000 mg/ kg)	-
Phenol, 4-methoxy-	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rabbit	740 mg/kg	-
	LD50 Oral	Rat	1600 mg/kg	-

Irritation/Corrosion

Manufacturer:
Covestro

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Product/ingredient name	Result	Species	Score	Exposure	Observation
Phenol, 4,4′-(1-methylethylidene)bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate	Skin - Erythema/Eschar	Rabbit	0	-	-
	Eyes - Cornea opacity	Rabbit	0	-	-
2-Propenoic acid, 2-phenoxyethyl ester	Eyes - Redness of the conjunctivae	Rabbit	1	hours	24 hours
	Skin - Primary dermal irritation index (PDII)	Rabbit	0.25	24 hours	-
2-Propenoic acid, (1R,2R,4R) -1,7,7-trimethylbicyclo[2.2.1] hept-2-yl ester, rel-	Skin - Erythema/Eschar	Rabbit	0	4 hours 0.5 ml	24 to 72 hours
	Skin - Edema	Rabbit	0	4 hours 0.5 ml	24 to 72 hours
	Eyes - Cornea opacity	Rabbit	0.61	0.1 ml	24 to 72 hours
	Eyes - Iris lesion	Rabbit	0	0.1 ml	24 to 72 hours
	Eyes - Edema of the conjunctivae	Rabbit	0.22	0.1 ml	24 to 72 hours
2-Propenoic acid, 1,1′-(1,6-hexanediyl) ester	Skin - Irritant	Rabbit	-	4 hours 0.5 ml	24 to 72 hours
	Eyes - Mild irritant	Rabbit	-	-	-
	Respiratory - Irritant	Mammal - species unspecified	-	-	-
2-propenoic acid, 1,1′-[(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester	Skin - Erythema/Eschar	Rabbit	0.22	4 hours 0.5 ml	24 to 72 hours
	Skin - Edema	Rabbit	0	4 hours 0.5 ml	24 to 72 hours
	Eyes - Cornea opacity	Rabbit	1	24 hours 0.1 ml	24 to 72 hours
	Eyes - Iris lesion	Rabbit	0.44	24 hours 0.1 ml	24 to 72 hours
	Eyes - Redness of the conjunctivae	Rabbit	2.33	24 hours 0.1 ml	24 to 72 hours
	Eyes - Edema of the conjunctivae	Rabbit	1.67	24 hours 0.1 ml	24 to 72 hours
	Eyes - Severe irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
Methanone, (diphenylphosphinyl) (2,4,6-trimethylphenyl)-	Eyes - Non-irritating	Rabbit	0	-	-
	Skin - Non-irritating	Rabbit	0	-	-
Phenol, 4-methoxy-	Skin - Mild irritant	Rabbit	-	288 hours 6 Grams Intermittent	-
	Skin - Erythema/Eschar	Rabbit	1.78	-	-
	Skin - Edema	Rabbit	1.44	-	-

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Phenol, 4,4′-(1-methylethylidene)bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate	skin	Mouse	Sensitizing
2-Propenoic acid, 2-phenoxyethyl ester	skin	Guinea pig	Sensitizing
2-Propenoic acid, (1R,2R,4R) -1,7,7-trimethylbicyclo[2.2.1] hept-2-yl ester, rel-	skin	Mouse	Sensitizing

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2-Propenoic acid, 1,1'-(1,6-hexanediyl) ester	skin	Guinea pig	Sensitizing
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester	skin	Mouse	Sensitizing
Methanone, (diphenylphosphinyl)(2,4,6-trimethylphenyl)-	skin	Mouse	Sensitizing

Mutagenicity

Product/ingredient name	Test	Experiment	Result
2-Propenoic acid, 2-phenoxyethyl ester	-	Experiment: In vitro Subject: Bacteria	Negative
	-	Experiment: In vitro Subject: Mammalian-Animal	Negative
	-	Experiment: In vitro Subject: Mammalian-Human	Negative
2-Propenoic acid, (1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, rel-	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 *In vitro* Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic	Negative
	OECD 473 *In vitro* Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Human Cell: Somatic	Negative
2-Propenoic acid, 1,1'-(1,6-hexanediyl) ester	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: Without & With	Negative
	OECD 476 *In vitro* Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic Metabolic activation: Without & with	Negative
	OECD 476 *In vitro* Mammalian Cell Gene Mutation Test	Experiment: In vivo Subject: Mammalian-Animal	Negative
	chromosome aberration and DNA damage and/or repair	Experiment: In vivo Subject: Mammalian-Animal	Negative
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Positive
	Mouse Lymphoma Forward Mutation Assay	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic Metabolic activation: Without & with metabolic activation	Positive
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative
	Chromosome aberration and DNA damage and/or repair	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative
Phenol, 4-methoxy-	-	Experiment: In vitro Subject: Bacteria	Negative
	-	Experiment: In vitro Subject: Mammalian-Animal	Negative
	-	Experiment: In vitro Subject: Mammalian-Human	Negative

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Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Phenol, 4-methoxy-	Negative - Dermal - NOAEL Negative - Dermal - NOAEL	Mouse Rabbit	- -	- -

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
2-Propenoic acid, 2-phenoxyethyl ester	-	-	-	Rat - Male, Female	Oral: 300 mg/kg Once daily, Parental	-
2-Propenoic acid, (1R,2R,4R) -1,7,7-trimethylbicyclo[2.2.1] hept-2-yl ester, rel-	-	Negative	Negative	Rat - Male, Female	Oral: 100 mg/kg / day (NOAEL)	-
2-Propenoic acid, 1,1'-(1,6-hexanediyl) ester	-	-	Negative	Rat	Oral	-
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester	-	Negative	-	Rat - Male, Female	Oral: 250 mg/kg / day (NOAEL)	-
	-	-	Negative	Rat	Oral: 250 mg/kg / day (NOAEL - Embryotoxicity)	-
	-	-	Negative	Rat	Oral: 250 mg/kg / day (NOAEL - Teratogenicity)	-
Phenol, 4-methoxy-	-	-	-	Rat	Oral: >300 mg/kg day, Parental	-

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
2-Propenoic acid, 1,1'-(1,6-hexanediyl) ester	Negative - Oral	Rat	750 mg/kg / day (NOAEL - Single dose Test)	-
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester	Negative - Oral	Rat	250 mg/kg	-
Phenol, 4-methoxy-	Positive - Oral	Rat	400 mg/kg day	-

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy (methyl-2,1-ethanediyl)]] ester	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Data is subject to change without notice.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Ingestion : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate	Sub-chronic NOAEL Oral	Rat - Male, Female	<100 mg/kg day	-
	Sub-chronic LOAEL Oral	Rat - Male	≤100 mg/kg day	-
2-Propenoic acid, 2-phenoxyethyl ester	Sub-chronic NOAEL Oral	Rat - Male, Female	300 mg/kg Once daily	-
2-Propenoic acid, (1R,2R,4R) -1,7,7-trimethylbicyclo[2.2.1] hept-2-yl ester, rel-	Chronic NOAEL Oral	Rat - Male, Female	100 mg/kg day	-
2-Propenoic acid, 1,1'-(1,6-hexanediyl) ester	Sub-acute NOAEL Oral	Rat - Male, Female	250 mg/kg /day	-
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester	Sub-acute NOAEL Oral	Rat - Male, Female	250 mg/kg /day	-
	Sub-acute LOAEL Dermal	Rabbit - Male, Female	250 mg/kg /day	-
Methanone,	Sub-acute NOAEL Oral	Rat - Male,	50 mg/kg day	-

Manufacturer:
Covestro

Product Name:
Covestro Cablelite® COV-950-706 Optical Fiber Coating (Matrix Coating), UV Cure (10 kg).

Manufacturer Part Number:
COV-950-706-10KG

(diphenylphosphinyl) (2,4,6-trimethylphenyl)-		Female		
Phenol, 4-methoxy-	Sub-acute NOAEL Oral	Rat	150 mg/kg day	-
	Sub-acute LOAEL Oral	Rat	300 mg/kg day	-

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Cablelite® 950-706	4708	5353.8	N/A	N/A	N/A
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate	2500	2500	N/A	N/A	N/A
2-Propenoic acid, 2-phenoxyethyl ester	5000	N/A	N/A	N/A	N/A
2-Propenoic acid, (1R,2R,4R)-1,7,7-trimethylbicyclo [2.2.1]hept-2-yl ester, rel-	4350	N/A	N/A	N/A	N/A
2-Propenoic acid, 1,1'-(1,6-hexanediyl) ester	N/A	3650	N/A	N/A	N/A
Phenol, 4-methoxy-	1600	2500	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate	Chronic NOEC ≥0.51 mg/l Fresh water	Daphnia	21 days
2-Propenoic acid, 2-phenoxyethyl ester	Acute EC50 4.44 mg/l	Algae	72 hours
	Acute EC50 1.33 mg/l	Algae	96 hours
	Acute EC50 1.21 mg/l	Daphnia	48 hours
	Acute EC50 177 mg/l	Micro-organism	3 hours
	Acute LC50 10 mg/l	Fish	96 hours
	Chronic EC_{10} 0.1 mg/l	Daphnia	21 days
2-Propenoic acid, (1R,2R,4R) -1,7,7-trimethylbicyclo[2.2.1] hept-2-yl ester, rel-	Acute EC50 1.98 mg/l Fresh water	Algae	72 hours
	Acute LC50 0.704 mg/l Fresh water	Fish	96 hours
	Acute NOEC 0.405 mg/l Fresh water	Algae	72 hours
	Chronic NOEC 0.092 mg/l Fresh water	Daphnia	21 days
2-Propenoic acid, 1,1'-(1,6-hexanediyl) ester	Acute EC50 2.7 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 2.33 mg/l Fresh water	Algae	72 hours
	Acute LC50 0.38 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 0.14 mg/l Fresh water	Daphnia	21 days
	Chronic NOEC 0.072 mg/l Fresh water	Fish	39 days
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester	Acute EC50 65.9 mg/l Fresh water	Algae	96 hours

Data is subject to change without notice.

Manufacturer:
Covestro

Product Name:
Covestro Cablelite® COV-950-706 Optical Fiber Coating (Matrix Coating), UV Cure (10 kg).

Manufacturer Part Number:
COV-950-706-10KG

	Acute EC50 69 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 4.6 to 10 mg/l Fresh water	Fish	96 hours
	Acute NOEC 2.15 mg/l Fresh water	Fish - Leuciscus idus	96 hours
Methanone, (diphenylphosphinyl) (2,4,6-trimethylphenyl)-	Acute EC50 1.56 mg/l Fresh water	Algae	72 hours
	Acute EC50 3.53 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 1.4 mg/l	Fish	96 hours
Phenol, 4-methoxy-	EC50 19 to 54.7 mg/l	Algae	72 hours
	Acute EC50 3 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 28.5 mg/l Fresh water	Fish	96 hours
	Acute NOEC 1.32 mg/l Fresh water	Daphnia	48 hours
	Chronic EC50 1.42 mg/l	Daphnia	21 days
	Chronic LC50 1.45 mg/l	Daphnia	21 days
	Chronic NOEC 0.68 mg/l	Daphnia	21 days

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Phenol, 4,4′-(1-methylethylidene)bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate	-	42 % - Inherent - 28 days	-	-
2-Propenoic acid, 2-phenoxyethyl ester	OECD 301D Ready Biodegradability - Closed Bottle Test	22.3 % - Inherent - 28 days	-	-
2-Propenoic acid, (1R,2R,4R) -1,7,7-trimethylbicyclo[2.2.1] hept-2-yl ester, rel-	OECD 301F Ready Biodegradability - Manometric Respirometry Test	51 % - 28 days	-	-
2-Propenoic acid, 1,1′-(1,6-hexanediyl) ester	OECD 310 Ready Biodegradability - CO_2 in Sealed Vessels (Headspace Test)	60 to 70 % - 28 days	-	-
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester	OECD 301B Ready Biodegradability - CO_2 Evolution Test	48 % - 28 days	-	-
Phenol, 4-methoxy-	OECD 311	>90 % - 56 days	-	-
	OECD 301 C	86 % - Readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Phenol, 4,4′-(1-methylethylidene)bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate	-	-	Inherent
2-Propenoic acid, 2-phenoxyethyl ester	-	-	Inherent
2-Propenoic acid, (1R,2R,4R) -1,7,7-trimethylbicyclo[2.2.1] hept-2-yl ester, rel-	-	-	Inherent
2-Propenoic acid, 1,1′-(1,6-hexanediyl) ester	-	-	Readily
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester	-	-	Inherent
Methanone,	-	-	Not readily

Data is subject to change without notice.

(diphenylphosphinyl) (2,4,6-trimethylphenyl)- Phenol, 4-methoxy-	-	-	Readily

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Phenol, 4,4′-(1-methylethylidene)bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate	1.6 to 3.8	-	low
2-Propenoic acid, 2-phenoxyethyl ester	2.58	-	low
2-Propenoic acid, (1R,2R,4R) -1,7,7-trimethylbicyclo[2.2.1] hept-2-yl ester, rel-	4.52	-	high
2-Propenoic acid, 1,1′-(1,6-hexanediyl) ester	2.81	29.09	low
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester	2	-	low
Methanone, (diphenylphosphinyl) (2,4,6-trimethylphenyl)- Phenol, 4-methoxy-	3.1	53 to 72	low
	1.58	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	UN3082	UN3082	UN3082	UN3082

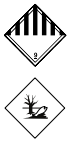
Manufacturer:
Covestro

Product Name:
Covestro Cablelite® COV-950-706 Optical Fiber Coating (Matrix Coating), UV Cure (10 kg).

Manufacturer Part Number:
COV-950-706-10KG

Click here for more details on the Covestro Cablelite® COV-950-706 Optical Fiber Coating (Matrix Coating), UV Cure (10 kg).

Safety Data Sheet **Cablelite® 950-706**

UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, 4,4′-(1-methylethylidene) bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate, 2-Propenoic acid, 2-phenoxyethyl ester)	SUBSTANCIA LIQUIDA POTENCIALMENTE PELIGROSA PARA EL MEDIO AMBIENTE, N.E.P. (Phenol, 4,4′-(1-methylethylidene) bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate, 2-Propenoic acid, 2-phenoxyethyl ester)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, 4,4′-(1-methylethylidene) bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate, 2-Propenoic acid, 2-phenoxyethyl ester)	Environmentally hazardous substance, liquid, n. o.s. (Phenol, 4,4′-(1-methylethylidene) bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate, 2-Propenoic acid, 2-phenoxyethyl ester)
Transport hazard class(es)	-	9 	9 	9 	9 
Packing group	-	III	III	III	III
Environmental hazards	No.	Yes.	Yes.	Yes.	Yes.

Additional information

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark).
Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.
Explosive Limit and Limited Quantity Index 5
Special provisions 16, 99

Mexico Classification : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Special provisions 274, 331, 335

IMDG : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
Emergency schedules F-A, S-F
Special provisions 274, 335, 969

IATA : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
Quantity limitation Passenger and Cargo Aircraft: 450 L. Packaging instructions: 964. Cargo Aircraft Only: 450 L. Packaging instructions: 964. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y964.
Special provisions A97, A158, A197

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Data is subject to change without notice.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 4(a) final test rules**: Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-
TSCA 8(a) CDR Exempt/Partial exemption: See remarks
United States inventory (TSCA 8b): See remarks
Clean Water Act (CWA) 307: toluene
Clean Water Act (CWA) 311: cyclohexane; toluene

	Product/ingredient name	CAS #	%
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	acrylic acid 2-Propenoic acid, 2-phenoxyethyl ester toluene	79-10-7 48145-04-6 108-88-3	0.093168 9.805 0 - 0.005187

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	2-Propenoic acid, 2-phenoxyethyl ester	48145-04-6	5 - 10
Supplier notification	2-Propenoic acid, 2-phenoxyethyl ester	48145-04-6	5 - 10

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : The following components are listed: GLYCOL ETHERS

Pennsylvania : The following components are listed: 2-PROPENOIC ACID

California Prop. 65

⚠ **WARNING**: This product can expose you to Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Toluene	-	Yes.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Ingredient name	List name	Status
Not listed.		

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Data is subject to change without notice.

Ingredient name	List name	Status
Not listed.		

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Ingredient name	List name	Status
Not listed.		

Remarks : Relevant declarations related to this product are available on request.

Section 16. Other information

History

Code : 015704WW29980

Date of printing : 9/13/2021

Date of issue/Date of revision : 9/13/2021

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Version : 18

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

Procedure used to derive the classification

Classification	Justification
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2B	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
TOXIC TO REPRODUCTION - Category 1B	Calculation method

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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Data is subject to change without notice.