

SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

Product Name:

Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Manufacturer Part Number:

COV-DU-2008-10KG

▶ Click here for more details on the Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

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

**Bufferlite® DU-2008****Section 1. Identification**

GHS product identifier : Bufferlite® DU-2008
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
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

GHS label elements**Hazard pictograms** :

Signal word : Warning
Hazard statements : H315 + H320 - Causes skin and eye irritation.
H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.

Precautionary statements

Prevention : P280 - Wear protective gloves.
P271 - Use only outdoors or in a well-ventilated area.
P261 - Avoid breathing vapor.
P264 - Wash hands thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.
Response : P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
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.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

Product Name:

Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Manufacturer Part Number:

COV-DU-2008-10KG

▶ Click here for more details on the Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Safety Data Sheet	Bufferlite® DU-2008	
-------------------	---------------------	--

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

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
Z-propenoic acid, 1,1'-[[1-methyl-1,2-ethanediy]bis[oxy(methyl-2,1-ethanediy)]] ester	25 - 50	42978-66-5
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate	25 - 50	55818-57-0
1-Propanone, 2-hydroxy-2-methyl-1-phenyl-	1 - 5	7473-98-5

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 it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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 if adverse health effects persist or are severe. 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 : May cause respiratory irritation.

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

Product Name:

Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Manufacturer Part Number:

COV-DU-2008-10KG

▶ [Click here for more details on the Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating \(Matrix Coating\), UV Cure \(10 kg\)](#)

Safety Data Sheet	Bufferlite® DU-2008	
-------------------	---------------------	---

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:
respiratory tract irritation
coughing

Skin contact : Adverse symptoms may include the following:
irritation
redness

Ingestion : No specific data.

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

Hazardous thermal decomposition products : In a fire or if heated, a pressure increase will occur and the container may burst.
Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
silicium oxides
(dense) black smoke
aldehydes
organic acids
halogenated compounds

Special protective actions for fire-fighters**Special protective equipment 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.

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

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

Product Name:

Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Manufacturer Part Number:

COV-DU-2008-10KG

▶ [Click here for more details on the Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating \(Matrix Coating\), UV Cure \(10 kg\)](#)

Safety Data Sheet Bufferlite® DU-2008



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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Keep away from flames or sparks. Inhibitor only effective in the presence of oxygen.

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

Product Name:

Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Manufacturer Part Number:

COV-DU-2008-10KG

▶ [Click here for more details on the Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating \(Matrix Coating\), UV Cure \(10 kg\)](#)

Safety Data Sheet	Bufferlite® DU-2008	
-------------------	---------------------	--

Section 8. Exposure controls/personal protection

Control parameters**Occupational exposure limits**

Ingredient name	Exposure limits
2-propenoic acid, 1,1'-[[1-methyl-1,2-ethanediy]]bis[oxy(methyl-2,1-ethanediy)] ester	None.
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate	None.
1-Propanone, 2-hydroxy-2-methyl-1-phenyl-	None.

- Appropriate engineering controls** : Use only with adequate ventilation. 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.

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

Product Name:

Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Manufacturer Part Number:

COV-DU-2008-10KG

▶ [Click here for more details on the Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating \(Matrix Coating\), UV Cure \(10 kg\)](#)

Safety Data Sheet Bufferlite® DU-2008



Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Straw. [Light]
Odor	: Characteristic.
Odor threshold	: Not available.
pH	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: >212°F (>100°C) [Closed cup]
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	: 1.12 (Water = 1)
Density (g/cm ³)	: 1.12 g/cm ³ (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): 1200 mPa·s (1200 cP)
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 storage 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.

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)



Manufacturer:

Covestro

Product Name:

Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Manufacturer Part Number:

COV-DU-2008-10KG

▶ [Click here for more details on the Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating \(Matrix Coating\), UV Cure \(10 kg\)](#)

Safety Data Sheet	Bufferlite® DU-2008	
-------------------	---------------------	--

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
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)	-
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>2000 mg/kg	-
1-Propanone, 2-hydroxy-2-methyl-1-phenyl-	LD50 Dermal	Rat	6929 mg/kg	-
	LD50 Oral	Rat	1694 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
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	-
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
	Skin - Erythema/Eschar	Rabbit	0	4 hours 0.5 ml	7 days
1-Propanone, 2-hydroxy-2-methyl-1-phenyl-	Eyes - Redness of the conjunctivae	Rabbit	0.7	4 hours 0.1 ml	72 hours
	Skin - Non-irritating	Rabbit	0	-	-
1-Propanone, 2-hydroxy-2-methyl-1-phenyl-	Eyes - Cornea opacity	Rabbit	0	-	72 hours

Sensitization

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)



Manufacturer:

Covestro

Product Name:

Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Manufacturer Part Number:

COV-DU-2008-10KG

▶ [Click here for more details on the Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating \(Matrix Coating\), UV Cure \(10 kg\)](#)

Safety Data Sheet Bufferlite® DU-2008	
--	--

Product/ingredient name	Route of exposure	Species	Result
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxymethyl-2,1-ethanediyl]] ester	skin	Mouse	Sensitizing
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate	skin	Mouse	Sensitizing
1-Propanone, 2-hydroxy-2-methyl-1-phenyl-	skin	Guinea pig	Not sensitizing

Mutagenicity

Product/ingredient name	Test	Experiment	Result
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxymethyl-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
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate	Chromosome aberration and DNA damage and/or repair	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal	Negative

Carcinogenicity

Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxymethyl-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, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate	-	Negative	Negative	Rat - Male, Female	Oral: >900 mg/kg NOAEL Parental, F1	-

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

Product Name:

Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Manufacturer Part Number:

COV-DU-2008-10KG

▶ Click here for more details on the Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Safety Data Sheet	Bufferlite® DU-2008	
-------------------	---------------------	--

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester	Negative - Oral	Rat	250 mg/kg	-

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.

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : Causes eye irritation.
- Inhalation** : May cause respiratory irritation.
- 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:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

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

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)



Manufacturer:

Covestro

Product Name:

Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Manufacturer Part Number:

COV-DU-2008-10KG

▶ [Click here for more details on the Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating \(Matrix Coating\), UV Cure \(10 kg\)](#)

Safety Data Sheet Bufferlite® DU-2008	
--	--

Product/ingredient name	Result	Species	Dose	Exposure
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	-
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate	Sub-chronic NOAEL Oral	Rat - Male, Female	<100 mg/kg	90 days
	Sub-chronic NOAEL Oral	Rat - Male, Female	50 mg/kg	-

- 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** : No known significant effects or critical hazards.

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)
Bufferlite® DU-2008	5543.9	6256.2	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
1-Propanone, 2-hydroxy-2-methyl-1-phenyl-	1694	6929	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
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
	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
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate	EC50 17 mg/l Fresh water	Algae	72 hours
	NOEC 0.19 mg/l Fresh water	Algae	72 hours
	Acute EC50 >16 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC ≥0.51 mg/l Fresh water	Daphnia	21 days
1-Propanone, 2-hydroxy-2-methyl-1-phenyl-	Chronic NOEC 0.25 mg/l	Fish	33 days
	Acute EC50 1.95 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 >119 mg/l Fresh water	Daphnia	48 hours
	Acute EC50 >1000 mg/l Fresh water	Micro-organism	180 minutes
	Acute LC50 160 mg/l Fresh water	Fish - Leuciscus idus	48 hours
	Acute NOEC 0.194 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)



Manufacturer:

Covestro

Product Name:

Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Manufacturer Part Number:

COV-DU-2008-10KG

▶ [Click here for more details on the Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating \(Matrix Coating\), UV Cure \(10 kg\)](#)

Safety Data Sheet Bufferlite® DU-2008	
--	--

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediy)]bis [oxy(methyl-2,1-ethanediy)] ester	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	48 % - 28 days	-	-
1-Propanone, 2-hydroxy-2-methyl-1-phenyl-	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	90 to 100 % - Readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediy)]bis [oxy(methyl-2,1-ethanediy)] ester	-	-	Inherent
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate	-	-	Not readily
1-Propanone, 2-hydroxy-2-methyl-1-phenyl-	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediy)]bis [oxy(methyl-2,1-ethanediy)] ester	2	-	low
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl) oxirane, 2-propenoate	1.6 to 3	-	low
1-Propanone, 2-hydroxy-2-methyl-1-phenyl-	1.62	-	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.

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)



Manufacturer:

Covestro

Product Name:

Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Manufacturer Part Number:

COV-DU-2008-10KG

▶ [Click here for more details on the Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating \(Matrix Coating\), UV Cure \(10 kg\)](#)

Safety Data Sheet Bufferlite® DU-2008	
--	--

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	UN3082	UN3082
UN proper shipping name	-			ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-Propanone, 2-hydroxy-2-methyl-1-phenyl-, 2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediy)]bis [oxy(methyl-2,1-ethanediy)] ester)	Environmentally hazardous substance, liquid, n. o.s. (1-Propanone, 2-hydroxy-2-methyl-1-phenyl-, 2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediy)]bis [oxy(methyl-2,1-ethanediy)] ester)
Transport hazard class(es)	-			9 	9
Packing group	-			III	III
Environmental hazards	No.	No.	No.	Yes.	Yes.

Additional information

IMDG :
IATA :

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.

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: toluene; Propylene oxide; acetaldehyde

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com
508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)



Manufacturer:

Covestro

Product Name:

Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Manufacturer Part Number:

COV-DU-2008-10KG

▶ [Click here for more details on the Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating \(Matrix Coating\), UV Cure \(10 kg\)](#)

Safety Data Sheet	Bufferlite® DU-2008	
-------------------	---------------------	--

	Product/ingredient name	CAS #	%
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	acrylic acid	79-10-7	0.0694
	toluene	108-88-3	0 - 0.033
	Propylene oxide	75-56-9	0.0002
	acetaldehyde	75-07-0	0.0001

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			
Supplier notification			

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 : None of the components are listed.

Pennsylvania : The following components are listed: 2-PROPENOIC ACID; BENZENE, METHYL-

California Prop. 65

⚠ WARNING: This product can expose you to chemicals including Furan, Propylene oxide and acetaldehyde, which are known to the State of California to cause cancer, and 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.
Furan	-	-
Propylene oxide	-	-
acetaldehyde	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

Ingredient name	List name	Status
Not listed.		

Rotterdam Convention on Prior Informed Consent (PIC)

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com



SAFETY DATA SHEET (SDS)

**Manufacturer:**

Covestro

Product Name:

Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating (Matrix Coating), UV Cure (10 kg)

Manufacturer Part Number:

COV-DU-2008-10KG

▶ [Click here for more details on the Covestro Bufferlite™ DU-2008 Tight Buffer Optical Fiber Coating \(Matrix Coating\), UV Cure \(10 kg\)](#)

Safety Data Sheet	Bufferlite® DU-2008	
-------------------	---------------------	--

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 : 015808WW35497
Date of printing : 5/11/2022
Date of issue/Date of revision : 5/11/2022
Date of previous issue : 9/13/2021
Version : 7

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
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method

References : Not available.

✔ Indicates information that has changed from previously issued version.

Notice to reader

Information contained in this 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.

Data is subject to change without notice.

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

23 Centre Street • New Bedford, MA 02740 USA • focenter.com

508-992-6464 | (800) 473-4237 • sales@focenter.com

