

# Safety Data Sheet

Issue Date: 14-Apr-2016

Revision Date: 26-Jan-2023

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** UV-XBT

### Other means of identification

**SDS #** UO-007

### Recommended use of the chemical and restrictions on use

**Recommended Use** For industrial use.

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Ultra Optics Company  
9200 Wyoming Avenue N.  
Suite 360  
Brooklyn Park, MN 55455

#### **Emergency Telephone Number**

**Company Phone Number** 1-800-365-9993  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Physical state** Liquid

### Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1B
Reproductive toxicity	Category 2

### Signal Word

**Danger**

### Hazard statements

Harmful if swallowed  
Causes severe skin burns and eye damage  
May cause an allergic skin reaction  
Suspected of causing genetic defects  
May cause cancer  
Suspected of damaging fertility or the unborn child



**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fume/gas/mist/vapors/spray  
Contaminated work clothing must not be allowed out of the workplace  
Wear protective gloves

**Precautionary Statements - Response**

Immediately call a poison center or doctor/physician  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a poison center or doctor/physician  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse  
If skin irritation or rash occurs: Get medical advice/attention  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Immediately call a poison center or doctor/physician  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth  
Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards**

Harmful to aquatic life with long lasting effects

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight-%
(3-Glycidyloxypropyl)trimethoxysilane	2530-83-8	35-45
2-Propenoic acid, 1,4-butanediyl ester	1070-70-8	20-30
1,6-Hexanediol diacrylate	13048-33-4	10-20
Diglycidyl resorcinol ether	101-90-6	1-10
Propylene carbonate	108-32-7	<3
Octamethylcyclotetrasiloxane	556-67-2	<5
Diphenyl(4-phenylthio)phenylsulfonium Hexafluoroantimonate	71449-78-0	<5

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

**4. FIRST AID MEASURES****First Aid Measures**

<b>General Advice</b>	Immediately call a poison center or doctor/physician.
<b>Eye Contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
<b>Skin Contact</b>	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
<b>Ingestion</b>	Call a poison center or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

**Most important symptoms and effects**

<b>Symptoms</b>	May be harmful in contact with skin. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Not determined.

**Hazardous Combustion Products** None known.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protective equipment as required.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.

**Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Store locked up.
<b>Incompatible Materials</b>	None known based on information supplied.

<b>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diphenyl(4-phenylthio)phenylsulfonium Hexafluoroantimonate 71449-78-0	TWA: 0.5 mg/m <sup>3</sup> Sb	TWA: 0.5 mg/m <sup>3</sup> Sb (vacated) TWA: 0.5 mg/m <sup>3</sup> Sb	IDLH: 50 mg/m <sup>3</sup> Sb TWA: 0.5 mg/m <sup>3</sup> Sb
(Thiodi-4,1-phenylene)bis(diphenylsulfonium) 89452-37-9	TWA: 0.5 mg/m <sup>3</sup> Sb	TWA: 0.5 mg/m <sup>3</sup> Sb (vacated) TWA: 0.5 mg/m <sup>3</sup> Sb	IDLH: 50 mg/m <sup>3</sup> Sb TWA: 0.5 mg/m <sup>3</sup> Sb

**Appropriate engineering controls**

<b>Engineering Controls</b>	Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Showers.
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**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and Body Protection</b>	Refer to 29 CFR 1910.138 for appropriate skin and body protection.
<b>Respiratory Protection</b>	Refer to 29 CFR 1910.134 for respiratory protection requirements.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>
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**Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Not determined
<b>Appearance</b>	Not determined	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Not determined		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
pH	Not determined		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	Not determined		
Flash Point	>60°C/ >140°F	Pensky-Martens Closed Cup (PMCC)	
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Not determined		
Flammability Limits in Air			
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	<1mmHg		
Vapor Density	1	@20°C (68°F)	
Relative Density	Not determined		
Water Solubility	Insoluble in water		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		

<b>Auto-ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Kinematic Viscosity</b>	Not determined
<b>Dynamic Viscosity</b>	Not determined
<b>Explosive Properties</b>	Not determined
<b>Oxidizing Properties</b>	Not determined

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to Avoid

Keep out of reach of children.

### Incompatible Materials

None known based on information supplied.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

**Inhalation** Do not inhale.

**Ingestion** Harmful if swallowed.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
(3-Glycidyloxypropyl)trimethoxysilane 2530-83-8	= 22600 µL/kg ( Rat )	= 3970 µL/kg ( Rabbit )	-
2-Propenoic acid, 1,4-butanediyl ester 1070-70-8	= 587 mg/kg ( Rat )	-	-
1,6-Hexanediol diacrylate 13048-33-4	= 5 g/kg ( Rat )	= 3600 µL/kg ( Rabbit )	-
Diglycidyl resorcinol ether 101-90-6	= 2570 mg/kg ( Rat )	-	-
Propylene carbonate 108-32-7	= 29000 mg/kg ( Rat )	> 20 mL/kg ( Rabbit )	-
Octamethylcyclotetrasiloxane 556-67-2	= 1540 mg/kg ( Rat )	= 794 µL/kg ( Rabbit )	= 36 g/m <sup>3</sup> ( Rat ) 4 h

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/Irritation** Causes severe skin burns.

**Serious eye damage/eye irritation** Causes severe eye damage.

**Sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** Suspected of causing genetic defects.

**Carcinogenicity** May cause cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Diglycidyl resorcinol ether 101-90-6		Group 2B	Reasonably Anticipated	X

**Legend**

*IARC (International Agency for Research on Cancer)*  
*Group 2B - Possibly Carcinogenic to Humans*  
*NTP (National Toxicology Program)*  
*Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen*  
*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*  
*X - Present*

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document.

**ATEmix (oral)** 1,482.00 mg/kg  
**ATEmix (dermal)** 2,113.00 mg/kg

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful to aquatic life with long lasting effects.

**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Propylene carbonate 108-32-7	500: 72 h Desmodesmus subspicatus mg/L EC50	5300: 96 h Leuciscus idus mg/L LC50 static 1000: 96 h Cyprinus carpio mg/L LC50 semi-static	500: 48 h Daphnia magna mg/L EC50
Octamethylcyclotetrasiloxane 556-67-2		500: 96 h Brachydanio rerio mg/L LC50 1000: 96 h Lepomis macrochirus mg/L LC50	25.2: 24 h Daphnia magna mg/L EC50

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Chemical Name	Partition Coefficient
Propylene carbonate 108-32-7	0.48
Octamethylcyclotetrasiloxane 556-67-2	5.1

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

Chemical Name	California Hazardous Waste Status
Diphenyl(4-phenylthio)phenylsulfonium Hexafluoroantimonate 71449-78-0	Toxic
(Thiodi-4,1-phenylene)bis(diphenylsulfonium) 89452-37-9	Toxic

**14. TRANSPORT INFORMATION****Land Transport (ADR/RID) and Land Transport (Within USA)**

UN Number	Not Regulated
Proper Shipping Name	Not Regulated
Transport Hazard Class(es)	Not Regulated
Packing Group	Not Regulated
Hazard Label(s)	Not Regulated
Environmental Hazards	Not Regulated
Special Precautions for User	Not Regulated

**Sea Transport (IMDG) and Air Transport (ICAO/IATA)**

UN Number	Not Regulated
Proper Shipping Name	Not Regulated
Transport Hazard Class(es)	Not Regulated
Packing Group	Not Regulated
Marine Pollutant	Not Regulated
Special Precautions for User	Not Regulated

Transport in bulk according to  
Annex II of MARPOL73/78 and  
the IBC Code

**15. REGULATORY INFORMATION****International Inventories**

Chemical Name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
(3-Glycidyloxypropyl)trimethoxy silane	X	X	X	Present	X	Present	X	X

2-Propenoic acid, 1,4-butanediyl ester	X	X	X	Present	X	Present	X	X
1,6-Hexanediol diacrylate	X	X	X	Present	X	Present	X	X
Diglycidyl resorcinol ether	X	X	X	Present	X		X	X
Acrylate Copolymer	X	X		Present	X	Present	X	X
Propylene carbonate	X	X	X	Present	X	Present	X	X
Octamethylcyclotetrasiloxane	X	X	X	Present	X	Present	X	X
1-Hydroxycyclohexyl Phenyl Ketone	X	X	X	Present	X	Present	X	X
Diphenyl(4-phenylthio)phenylsulfonium Hexafluoroantimonate	X	X			X		X	X
(Thiodi-4,1-phenylene)bis(diphenylsulfonium)	X	X			X		X	X

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations**

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**SARA 313**

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Diglycidyl resorcinol ether - 101-90-6	101-90-6	1-10	0.1

**CWA (Clean Water Act)**

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Diphenyl(4-phenylthio)phenylsulfonium Hexafluoroantimonate		X		
(Thiodi-4,1-phenylene)bis(diphenylsulfonium)		X		

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Diglycidyl resorcinol ether - 101-90-6	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diglycidyl resorcinol ether 101-90-6	X	X	X
Diphenyl(4-	X		X



phenylthio)phenylsulfonium Hexafluoroantimonate 71449-78-0			
(Thiodi-4,1- phenylene)bis(diphenylsulfonium) 89452-37-9	X		X

## 16. OTHER INFORMATION

### NFPA

### **Health Hazards**

### **Flammability**

### **Instability**

### **Special Hazards**

### HMIS

### **Health Hazards**

### **Flammability**

### **Physical hazards**

### **Personal Protection**

Not determined

Not determined

Not determined

Not determined

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**Revision Note:**

New format

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**