# Safety Data Sheet

Issue Date: 20-Feb-2013

Revision Date: 12-Aug-2021

Version 2

# **1. IDENTIFICATION**

Product Identifier Product Name UV-87

Other means of identification SDS #

UO-004

Recommended use of the chemical and restrictions on useRecommended UseOptics Coating.

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 Emergency Telephone (24 hr)

1-800-365-9993 INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

Appearance Clear pale yellow liquid

Physical State Liquid

Odor Moderate solvent odor

# **Classification**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Reproductive toxicity	Category 2
Flammable Liquids	Category 4

#### <u>Signal Word</u> Warning

#### Hazard Statements

Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction Suspected of damaging fertility or the unborn child Combustible liquid



#### **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 Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace Keep away from heat/sparks/open flames/hot surfaces. — No smoking Wear protective gloves/protective clothing/eve protection/face protection

### **Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

#### **Precautionary Statements - Storage**

Store locked up Store in a well-ventilated place. Keep cool

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other Hazards

Harmful to aquatic life

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Proprietary Material C	Proprietary	10-20
Proprietary Material D	Proprietary	1-5
Proprietary Material E	Proprietary	<1
Proprietary Material G	Proprietary	<1

\*\*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

General Advice	Provide this SDS to medical personnel for treatment.	
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
Skin Contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.	
Inhalation	Remove to fresh air. Seek medical attention if irritation develops or persists.	
Ingestion	Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.	

#### Most important symptoms and effects

Symptoms	May be harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.
Indication of any immediate medical attention and special treatment needed	

**Notes to Physician** Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

# Suitable Extinguishing Media

Carbon dioxide (CO2). Foam. Dry chemical.

#### Unsuitable Extinguishing Media Not determined.

#### Specific Hazards Arising from the Chemical

Not determined.

Hazardous Combustion Products Carbon oxides.

#### 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.		
<b>Environmental Precautions</b>	See Section 12 for additional Ecological Information.		
Methods and material for containm	nent and cleaning up		
Methods for Containment	Prevent further leakage or spillage if safe to do so.		
Methods for Clean-Up	Contain spilled material using absorbent material. Place absorbent material in clean container.		

# 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. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Wear protective gloves/protective clothing and eye/face protection.

# Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up.
Incompatible Materials	Strong oxidizers. Water. Inert gases. Amines. Alkali.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Proprietary Material E	TWA: 0.5 mg/m <sup>3</sup> Sb	TWA: 0.5 mg/m <sup>3</sup> Sb	IDLH: 50 mg/m <sup>3</sup> Sb
	-	(vacated) TWA: 0.5 mg/m <sup>3</sup> Sb	TWA: 0.5 mg/m <sup>3</sup> Sb

# Appropriate engineering controls

Engineering Controls	Apply technical measures to comply with the occupational exposure limits. Showers. Eyewash stations. Ventilation systems.	
Individual protection measures, su	ich as personal protective equipment	
Eye/Face Protection	Wear appropriate chemical goggles. Refer to 29 CFR 1910.133 for eye and face protection regulations.	
Skin and Body Protection	Wear suitable protective clothing.	
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.	

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear pale yellow liquid
Color	Pale yellow

Odor Odor Threshold Moderate solvent odor Not determined

Remarks • Method

Property bН Melting Point/Freezing Point **Boiling Point/Boiling Range** Flash Point **Evaporation Rate** Flammability (Solid, Gas) **Upper Flammability Limits** Lower Flammability Limit Vapor Pressure Vapor Density **Specific Gravity** Water Solubility Solubility in other solvents **Partition Coefficient Auto-ignition Temperature Decomposition Temperature** Kinematic Viscosity **Dynamic Viscosity Explosive Properties Oxidizing Properties** 

Values Not determined Not determined Not determined >60°C / 140°F Not determined 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.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

## **Conditions to Avoid**

Excessive heat.

# **Incompatible Materials**

Strong oxidizers. Water. Inert gases. Amines. Alkali.

#### Hazardous Decomposition Products

Carbon oxides. By-products undetermined.

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

Eye Contact	Causes serious eye irritation.	
Skin Contact	May be harmful in contact with skin. Causes skin irritation.	
Inhalation	Do not inhale.	
Ingestion	Do not ingest.	

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary Material A	= 22600 µL/kg(Rat)	= 3970 µL/kg (Rabbit)	-
Proprietary Material C	= 5 g/kg (Rat)	= 3600 µL/kg (Rabbit)	-
Proprietary Material D	= 29000 mg/kg(Rat)	> 20 mL/kg (Rabbit)	-
Proprietary Material G	= 1540 mg/kg (Rat)	= 794 µL/kg (Rabbit)	= 36 g/m³ (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			
Sensitization	May cause an allergic skin reaction.		
Carcinogenicity	Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.		
Reproductive toxicity	Suspected of damaging fertility or the unborn child.		
Numerical measures of toxicity Not determined			

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Harmful to aquatic life.

#### **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Proprietary Material D	500: 72 h Desmodesmus subspicatus mg/L EC50	1000: 96 h Cyprinus carpio mg/L LC50 semi-static 5300: 96 h Leuciscus idus mg/L LC50 static	EC50 > 10000 mg/L 17 h	500: 48 h Daphnia magna mg/L EC50
Proprietary Material G		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.

# <u>Mobility</u>

Chemical Name	Partition Coefficient
Proprietary Material D	0.48
Proprietary Material G	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	
Proprietary Material E	Toxic	

14. TRANSPORT INFORMATION				
<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.			
<u>DOT</u>	Not regulated			
IATA_	Not regulated			
IMDG_	Not regulated			

# **15. REGULATORY INFORMATION**

# International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Proprietary Material C	Present	Х		Present		Present	Х	Present	Х	Х
Proprietary Material D	Present	Х		Present		Present	Х	Present	Х	Х
Proprietary Material E	Present		Х				Х		Х	Х
Proprietary Material G	Present	Х		Present		Present	Х	Present	Х	Х

#### 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

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No Weight-%		SARA 313 - Threshold Values %	
Proprietary Material E -		<1	1.0	

#### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Proprietary Material E		Х		

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Proprietary Material E	Х		Х

# **16. OTHER INFORMATION**

NFPA HMIS	Health Hazards Not determined Health Hazards Not determined	Flammability Not determined Flammability Not determined	Instability Not determined Physical Hazards Not determined	Special Hazards Not determined Personal Protection Not determined
Issue Date: Revision Date:	20-Feb- 12-Aug-			

Regulatory update

**Disclaimer** 

**Revision Note:** 

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**