# **Safety Data Sheet**

Issue Date: 20-Dec-2013 Revision Date: 15-Aug-2024 Version 2

## 1. IDENTIFICATION

**Product identifier** 

Product Name UV-NQ

Other means of identification

**SDS #** UO-005

Recommended use of the chemical and restrictions on use

Recommended Use Optics 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 1-800-365-9993

**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

AppearanceClear pale yellow liquidPhysical stateLiquidOdor acrid

## Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 2
Flammable liquids	Category 4

#### **Signal Word**

Danger

#### **Hazard statements**

Harmful if swallowed
Harmful in contact with skin
Causes severe skin burns and eye damage
May cause an allergic skin reaction
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

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dusts or mists

Contaminated work clothing must not be allowed out of the workplace

Keep away from flames and hot surfaces. - No smoking

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor

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

IF ON SKIN (or hair): 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 person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER or doctor

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

Do NOT induce vomiting

IN CASE OF FIRE: Use CO2, dry chemical, or foam to extinguish

#### **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

Toxic to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
2-Propenoic acid, 1,4-butanediyl ester	1070-70-8	30-60
Proprietary Silane monomers and oligomers	2530-83-8	15-40
1,6-Hexanediol diacrylate	13048-33-4	10-30
Diphenyl(4-phenylthio)phenylsulfonium Hexafluoroatimonate	71449-78-0	1-5
Propylene carbonate	108-32-7	1-5
Octamethylcyclotetrasiloxane	556-67-2	0.1-1

<sup>\*\*</sup>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

#### Description of first aid measures

**General Advice** Immediately call a poison center or doctor/physician.

**Eye Contact** 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.

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**Skin Contact** 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.

**Inhalation** Remove person to fresh air and keep comfortable for breathing. Immediately call a poison

center or doctor/physician.

Ingestion Call a poison center or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce

vomiting.

## Most important symptoms and effects, both acute and delayed

**Symptoms** Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye

damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn

child.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use CO2, dry chemical, or foam for extinction.

Unsuitable Extinguishing Media Not determined.

## **Specific Hazards Arising from the Chemical**

Combustible liquid.

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.

**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

Contain spilled material using absorbent material. Place absorbent material in clean

container.

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# 7. HANDLING AND STORAGE

## Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been Advice on Safe Handling

read and understood. Wear protective gloves/protective clothing and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dusts or mists. Contaminated work clothing must not be allowed out of the workplace. Keep away from heat/sparks/open flames/hot

surfaces. — No smoking.

## Conditions for safe storage, including any incompatibilities

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

**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 D	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, such 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. Refer to 29 CFR 1910.138 for appropriate skin and body

protection.

**Respiratory Protection** If airborne concentrations are above the applicable exposure limits, use NIOSH approved

respiratory protection. Refer to 29 CFR 1910.134 for respiratory protection requirements.

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 Odor acrid

Color Pale yellow **Odor Threshold** Not determined

**Property** <u>Values</u> Remarks • Method

No data available Melting point / freezing point No data available No data available

Initial boiling point and boiling

range

> 60 °C / 140 °F Flash point

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Not determined **Evaporation Rate** 

**Property** Values Remarks • Method Liquid- Not Applicable

Flammability (Solid, Gas) Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

**Vapor Pressure** Not determined Vapor Density No data available **Relative Density** Not determined **Water Solubility** Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined No data available Autoignition temperature **Decomposition temperature** Not determined Kinematic viscosity Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** 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

**Product Information** 

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Harmful in contact with skin.

Inhalation Do not inhale.

Ingestion Harmful if swallowed.

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary Material A	= 587 mg/kg ( Rat )	400 - 800 mg/kg (Rat)	> 0.06 mg/L (Rat)8 h
Proprietary Material B	= 7.01 g/kg(Rat)	= 3.97 mL/kg(Rabbit)	> 5.3 mg/L (Rat)4 h
Proprietary Material C	= 5 g/kg ( Rat )	= 3600 mg/kg(Rabbit)	-
Proprietary Material E	= 29000 mg/kg(Rat)	> 3000 mg/kg(Rabbit)	-
Proprietary Material F	= 1540 mg/kg ( Rat )	> 2375 mg/kg (Rat)	= 36 mg/L (Rat) 4 h

## Symptoms related to the physical, chemical and toxicological characteristics

**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.

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**

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

 Oral LD50
 1,044.20 mg/kg

 Dermal LD50
 1,791.80 mg/kg

 ATEmix (inhalation-dust/mist)
 30.60 mg/l

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Toxic to aquatic life with long lasting effects.

## **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Proprietary Material B		LC50: =55mg/L (96h, Cyprinus	
		carpio)	
Proprietary Material E	EC50: >500mg/L (72h,	LC50: >1000mg/L (96h, Cyprinus	EC50: >500mg/L (48h, Daphnia
	Desmodesmus subspicatus)	carpio)	magna)
Proprietary Material F		LC50: >500mg/L (96h, Brachydanio	
		rerio)	
		LC50: >1000mg/L (96h, Lepomis	
		macrochirus)	

#### Persistence/Degradability

Not determined.

D- --- 0/0

#### Bioaccumulation

There is no data for this product.

#### **Mobility**

Chemical name	Partition coefficient
Proprietary Material A	1.9
Proprietary Material C	2.81
Proprietary Material D	-0.426
Proprietary Material E	0.48
Proprietary Material F	6.488

#### 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 D	Toxic

# 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

**DOT** Please contact manufacturer for most current information

<u>IATA</u> Please contact manufacturer for most current information

IMDG Please contact manufacturer for most current information

## 15. REGULATORY INFORMATION

## International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AIIC
Proprietary Material A	X	ACTIVE	Х	X	Х	Х	Х	Х	Х
Proprietary Material B	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х
Proprietary Material C	Х	ACTIVE	Х	Х	Х	Х	Х	X	X
Proprietary Material D	Х	ACTIVE	Х		Х	Х		Х	Х
Proprietary Material E	Х	ACTIVE	Х	Х	Χ	Х	Х	Х	Х

Proprietary Material F	X	ACTIVE	X	X	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 %
Proprietary Material D -		1-5	1.0

#### **CWA (Clean Water Act)**

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Proprietary Material D		X		

## **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 D	X		X

# **16. OTHER INFORMATION**

NFPA Health hazards Flammability Instability Special hazards

- -

<u>HMIS</u> Health hazards Flammability Physical hazards Personal Protection

- - Not determined

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#### **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** 

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