

# UV NV

## Safety Data Sheet

Revision date: 2/20/2013

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name. : UV NV

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Optics Coating

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

Ultra Optics Company  
9200 Wyoming Avenue N  
Brooklyn Park, MN 55455  
T (800) 365-9993

#### 1.4. Emergency telephone number

Emergency number : (800) 535-5053

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 4 H227  
Skin Corr. 1B H314  
Skin Sens. 1 H317

#### 2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H227 - Combustible liquid  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction

Precautionary statements (GHS-US)

: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 - Wash ... thoroughly after handling  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor/physician  
P321 - Specific treatment (see ... on this label)  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P362+P364 - Take off contaminated clothing and wash it before reuse  
P363 - Wash contaminated clothing before reuse  
P370+P378 - In case of fire: Use ... for extinction  
P403+P235 - Store in a well-ventilated place. Keep cool  
P405 - Store locked up  
P501 - Dispose of contents/container to ...

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No data available

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

Not applicable

**3.2. Mixture**

Name	Product Identifier	%	GHS-US classification
Proprietary Component 1	(CAS No.) Trade Secret	30 - 40	Not classified
Proprietary Component 2	(CAS No.) Trade Secret	20 - 30	Not classified
Proprietary Component 3	(CAS No.) Trade Secret	20 - 30	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Skin Sens. 1, H317
Proprietary Component 4	(CAS No.) Trade Secret	<= 3	Not classified
Proprietary Component 5	(CAS No.) Trade Secret	<= 3	Not classified
Proprietary Component 6	(CAS No.) Trade Secret	<= 3	Not classified
Proprietary Component 7	(CAS No.) Trade Secret	<= 3	Not classified
Proprietary Component 8	None	1	Not classified

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

- First-aid measures after inhalation : Remove to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
- First-aid measures after skin contact : Wash affected area with soap and water. Get medical attention if irritation develops or persists.
- First-aid measures after eye contact : Immediately flush eyes with plenty of water. Get medical attention, if irritation persists. Remove contact lenses after flushing.
- First-aid measures after ingestion : Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

- Symptoms/injuries after inhalation : Under anticipated use conditions at ambient temperatures, material is not expected to be an inhalation hazard. Prolonged exposure may cause irritation to the respiratory tract.
- Symptoms/injuries after skin contact : May cause irritation. Prolonged exposure may result in adsorption of harmful amounts of material.
- Symptoms/injuries after eye contact : Liquid may cause severe irritation to the eyes. Symptoms may include redness, pain and discomfort. Possible corrosive potential.
- Symptoms/injuries after ingestion : May cause irritation or chemical burns of the mouth, throat, and esophagus. A component of this material reacts in the stomach, producing methyl alcohol. Signs and symptoms of methyl alcohol poisoning include visual disturbances, metabolic acidosis, and formic acid in the urine.

**4.3. Indication of any immediate medical attention and special treatment needed**

No additional information available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

- Suitable extinguishing media : Carbon Dioxide, foam, dry chemical
- Unsuitable extinguishing media : None.

**5.2. Special hazards arising from the substance or mixture**

- Fire hazard : None known.
- Explosion hazard : None known.

**5.3. Advice for firefighters**

- Protection during firefighting : Firefighters should wear full protective gear.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**6.1.1. For non-emergency personnel**

No additional information available

**6.1.2. For emergency responders**

No additional information available

**6.2. Environmental precautions**

Prevent entry to sewers and public waters.

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

- For containment : Stop the flow of material, if this is without risk.
- Methods for cleaning up : Use personal protective equipment when cleaning spill. Avoid exposure to the spilled material. Contain spilled material using absorbent material. Place absorbent material in clean container.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Use only with adequate ventilation. Avoid breathing vapors and avoid eye or skin contact with product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated, cool, dry place. Avoid excessive heat and ignition sources.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Appropriate engineering controls : Local exhaust and general ventilation must be adequate to meet exposure standards.

Hand protection : Use nitrile, neoprene, or multilayer laminate gloves to protect skin from contact.

Eye protection : Wear appropriate chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : Clear  
Colour : Pale yellow  
Odour : Moderate solvent  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : Slower than butyl acetate  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : > 140 °F Pensky Martin Closed Cup  
Self ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure : No data available  
Vapour density at 20 °C : 1  
Relative density : No data available  
Solubility : No data available  
Log Pow : No data available  
Log Kow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidising properties : No data available  
Explosive limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

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### 10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

### 10.3. Possibility of hazardous reactions

Will not occur.

### 10.4. Conditions to avoid

Avoid contact with excessive heat (temperatures above 300°C), acids, moisture and water.

### 10.5. Incompatible materials

Strong oxidizers, water, inert gases, amines, and alkalis.

### 10.6. Hazardous decomposition products

Carbon dioxide, carbon monoxide, nitrogen oxides, silicon, and hydrogen fluoride.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Proprietary Component 3 (Trade Secret)	
LD50 oral rat	587 mg/kg

Proprietary Component 4 (Trade Secret)	
LD50 oral rat	29000 mg/kg
LD50 dermal rabbit	> 20000 mg/kg

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Proprietary Component 4 (Trade Secret)	
LC50 fishes 1	5300 mg/l (Exposure time: 96 h - Species: Leuciscus idus [static])
EC50 Daphnia 1	> 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	> 500 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
LC50 fish 2	> 1000 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

Proprietary Component 4 (Trade Secret)	
Log Pow	0.48 (at 25 °C)

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

**SECTION 14: Transport information**

- 14.1. UN number  
Not regulated by DOT / ADR / RID / ADNR / IMDG / ICAO / IATA
- 14.2. UN proper shipping name  
Not regulated by DOT / ADR / RID / ADNR / IMDG / ICAO / IATA
- 14.3. Additional information  
Not regulated by DOT / ADR / RID / ADNR / IMDG / ICAO / IATA

**SECTION 15: Regulatory information**

15.1. US Federal regulations

<b>Proprietary Component 3 (Trade Secret)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Proprietary Component 1 (Trade Secret)</b>
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<b>Proprietary Component 7 (Trade Secret)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

- 15.2. US State regulations  
No additional information available

**SECTION 16: Other information**

Full text of H-phrases: see section 16:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Flam. Liq. 4	Flammable liquids, Category 4
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Sensitisation — Skin, category 1
H227	Combustible liquid
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*