

# Safety Data Sheet

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Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** UV-200

### Other means of identification

**SDS #** UO-003

### 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 (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear liquid

**Physical state** Liquid

**Odor** Slight acrylic

### 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                |
| Reproductive toxicity             | Category 2                |
| Flammable Liquids                 | Category 4                |

### Hazards Not Otherwise Classified (HNOC)

May be harmful in contact with skin

### Signal Word

**Danger**

### Hazard statements

Harmful if swallowed  
Causes severe skin burns and eye damage  
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  
 Do not eat, drink or smoke when using this product  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking

**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  
 Immediately call a poison center or doctor/physician  
 Wash contaminated clothing before reuse  
 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: Rinse mouth. Do NOT induce vomiting  
 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 G | Proprietary | 1-5      |
| Proprietary Material H | Proprietary | 1-5      |
| Proprietary Material K | 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**

|                       |   |
|-----------------------|---|
| <b>General Advice</b> | Provide this SDS to medical personnel for treatment.  |
| <b>Eye Contact</b>    | 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.                    |
| <b>Skin Contact</b>   | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse. |
| <b>Inhalation</b>     | 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.  |

**Ingestion** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Most important symptoms and effects**

**Symptoms** Causes severe skin burns and eye damage. May cause an allergic skin reaction. May be harmful in contact with skin. Harmful if swallowed.

**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. Nitrogen oxides (NOx). Silicon oxides. Hydrogen fluoride.

**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.

**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. Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

**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 K | TWA: 0.5 mg/m <sup>3</sup> Sb | TWA: 0.5 mg/m <sup>3</sup> Sb<br>(vacated) TWA: 0.5 mg/m <sup>3</sup> Sb | IDLH: 50 mg/m <sup>3</sup> Sb<br>TWA: 0.5 mg/m <sup>3</sup> Sb |
| Proprietary Material L | TWA: 0.5 mg/m <sup>3</sup> Sb | TWA: 0.5 mg/m <sup>3</sup> Sb<br>(vacated) TWA: 0.5 mg/m <sup>3</sup> Sb | IDLH: 50 mg/m <sup>3</sup> Sb<br>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** Use nitrile, neoprene, or multilayer laminate gloves to protect skin from contact. Suitable protective clothing.

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

**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 liquid  
**Color** Not determined

**Odor** Slight acrylic  
**Odor Threshold** Not determined

| <u>Property</u>              | <u>Values</u>          | <u>Remarks • Method</u> |
|------------------------------|------------------------|-------------------------|
| pH                           | Not determined         |                         |
| Melting Point/Freezing Point | Not determined         |                         |
| Boiling Point/Boiling Range  | Not determined         |                         |
| Flash Point                  | > 60 °C / 141 °F       |                         |
| Evaporation Rate             | Not determined         |                         |
| Flammability (Solid, Gas)    | Liquid- Not Applicable |                         |
| Flammability Limits in Air   |                        |                         |
| Upper Flammability Limits    | Not determined         |                         |
| Lower Flammability Limit     | Not determined         |                         |
| Vapor Pressure               | <1 mmHg                | @ 20°C (68°F)           |
| Vapor Density                | Not determined         |                         |
| Relative Density             | 1.12 - 1.15            |                         |
| Water Solubility             | Not determined         |                         |
| Solubility in other solvents | Not determined         |                         |
| Partition Coefficient        | Not determined         |                         |
| Auto-ignition Temperature    | Not determined         |                         |

| <u>Property</u>                  | <u>Values</u>  | <u>Remarks • Method</u> |
|----------------------------------|----------------|-------------------------|
| <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.

**Hazardous Polymerization**      Hazardous polymerization does not occur.

**Conditions to Avoid**

Excessive temperature. Unintended contact with water or moisture.

**Incompatible Materials**

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

**Hazardous Decomposition Products**

Carbon oxides. Nitrogen oxides (NOx). Silicon oxides. Hydrogen fluoride.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information**

**Eye Contact**                                      Causes severe eye damage.

**Skin Contact**                                     Causes severe skin burns. May be harmful in contact with skin.

**Inhalation**                                        Do not inhale.

**Ingestion**                                         Harmful if swallowed.

**Component Information**

| <b>Chemical Name</b>   | <b>ATEmix (oral)</b>  | <b>ATEmix (dermal)</b>  | <b>Inhalation LC50</b>            |
|------------------------|-----------------------|-------------------------|-----------------------------------|
| Proprietary Material A | = 22600 µL/kg ( Rat ) | = 3970 µL/kg ( Rabbit ) | -                                 |
| Proprietary Material C | = 587 mg/kg ( Rat )   | -                       | -                                 |
| Proprietary Material D | = 8 mL/kg ( Rat )     | = 6300 µL/kg ( Rabbit ) | -                                 |
| Proprietary Material G | = 29000 mg/kg ( Rat ) | > 20 mL/kg ( Rabbit )   | -                                 |
| Proprietary Material H | = 1540 mg/kg ( Rat )  | = 794 µL/kg ( Rabbit )  | = 36 g/m <sup>3</sup> ( Rat ) 4 h |
| Proprietary Material J | = 13792 mg/kg ( Rat ) | -                       | -                                 |

**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**

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

**ATEmix (oral)** 1,892.00 mg/kg  
**ATEmix (dermal)** 2,342.00 mg/kg  
**ATEmix (inhalation-vapor)** 2,518.00 mg/L

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Harmful to aquatic life.

**Component Information**

| Chemical Name          | Algae/aquatic plants                        | Fish  | Crustacea                          |
|------------------------|---|---|------------------------------------|
| Proprietary Material G | 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  |
| Proprietary Material H |   | 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 |
|------------------------|-----------------------|
| Proprietary Material G | 0.48                  |
| Proprietary Material H | 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 K | Toxic                             |
| Proprietary Material L | 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

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

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

**15. REGULATORY INFORMATION**

**International Inventories**

| Chemical Name          | TSCA | DSL/NDSL | EINECS/E LINCS | ENCS    | IECSC | KECL    | PICCS | AICS |
|------------------------|------|----------|----------------|---------|-------|---------|-------|------|
| Proprietary Material A | X    | X        | X              | Present | X     | Present | X     | X    |
| Proprietary Material B | X    | X        |                | Present | X     | Present | X     | X    |
| Proprietary Material C | X    | X        | X              | Present | X     | Present | X     | X    |
| Proprietary Material D | X    | X        | X              | Present | X     | Present | X     | X    |
| Proprietary Material E | X    | X        | X              | Present |       | Present | X     |      |
| Proprietary Material F | X    | X        |                |         |       |         |       | X    |
| Proprietary Material G | X    | X        | X              | Present | X     | Present | X     | X    |
| Proprietary Material H | X    | X        | X              | Present | X     | Present | X     | X    |
| Proprietary Material I | X    | X        | X              | Present | X     | Present | X     | X    |
| Proprietary Material J | X    | X        |                | Present | X     | Present | X     | X    |
| Proprietary Material K | X    | X        |                |         | X     |         | X     | X    |
| Proprietary Material L | 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**

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

**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 K |                             | X                      |                           |                            |
| Proprietary Material L |                             | X                      |                           |                            |

**US State Regulations**

**California Proposition 65**

This product may contain a trace amount of one or more of the chemicals on the California list of known carcinogens or substances known to cause birth defects or other reproductive harm. These are not added to the product but occur naturally in the raw materials or processing equipment. Methanol, Toluene, Epichlorohydrin.

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

| Chemical Name          | New Jersey | Massachusetts | Pennsylvania |
|------------------------|------------|---------------|--------------|
| Proprietary Material K | X          |               | X            |
| Proprietary Material L | X          |               | X            |

**16. OTHER INFORMATION**

|             |                       |                     |                         |                            |
|-------------|-----------------------|---------------------|-------------------------|----------------------------|
| <b>NFPA</b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Instability</b>      | <b>Special Hazards</b>     |
|             | Not determined        | Not determined      | Not determined          | Not determined             |
| <b>HMIS</b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Physical hazards</b> | <b>Personal Protection</b> |
|             | Not determined        | Not determined      | Not determined          | 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**