Material Safety Data Sheet  
Material Name: Dye Additive

*** Section 1 - Chemical Product and Company Identification ***

Manufacturer Information  
Ultra Optics Company  
9200 Wyoming Avenue N.  
Suite 360  
Brooklyn Park, MN 55445  
Phone: (800) 365-9993  
Emergency #: (800) 535-5053

*** Section 2 - Hazards Identification ***

Emergency Overview  
May cause eye, skin and respiratory tract irritation.

Potential Health Effects: Eyes  
May cause eye irritation.

Potential Health Effects: Skin  
May cause skin irritation.

Potential Health Effects: Ingestion  
Not considered a likely route of exposure under normal product handling conditions. May cause gastrointestinal irritation if swallowed.

Potential Health Effects: Inhalation  
May cause respiratory tract irritation.

HMIS Ratings: Health: 1 Fire: 0 HMIS Reactivity 0  
**Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe ** = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>&gt;70</td>
</tr>
<tr>
<td></td>
<td>Surfactant</td>
<td>&lt;30</td>
</tr>
</tbody>
</table>

*** Section 4 - First Aid Measures ***

First Aid: Eyes  
Flush immediately with water for at least 15 minutes. Do not rub eyes. If irritation persists get medical attention.

First Aid: Skin  
Wash affected area with soap and water. Wash contaminated clothing before re-use.

First Aid: Ingestion  
DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

First Aid: Inhalation  
Remove person to fresh air. Apply artificial respiration if needed.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards  
See Section 9 for Flammability Properties.  
None

Hazardous Combustion Products  
None

Extinguishing Media  
Use appropriate extinguishing media for surrounding fire.

Fire Fighting Equipment/Instructions  
Firefighters should wear full protective gear.
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NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures
No special containment needed.

Clean-Up Procedures
Use absorbent material for large spills of this material. Pick up and transfer to properly labeled container for disposal.

Evacuation Procedures
Isolate area. Keep unnecessary personnel away.

Special Procedures
None

*** Section 7 - Handling and Storage ***

Handling Procedures
Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Storage Procedures
No special storage needed.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits
AGCIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls
Use general ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face
Wear safety glasses; chemical goggles (if splashing is possible).

Personal Protective Equipment: Skin
Use impervious gloves.

Personal Protective Equipment: Respiratory
None needed under normal product use conditions.

Personal Protective Equipment: General
Eye wash fountain is recommended.

*** Section 9 - Physical & Chemical Properties ***

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Clear</td>
</tr>
<tr>
<td>Physical State:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>ND</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>ND</td>
</tr>
<tr>
<td>Solubility (H2O):</td>
<td>Soluble</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>ND</td>
</tr>
<tr>
<td>Octanol/H2O Coeff.:</td>
<td>ND</td>
</tr>
<tr>
<td>Flash Point Method:</td>
<td>ND</td>
</tr>
<tr>
<td>Lower Flammability Limit (LFL):</td>
<td>ND</td>
</tr>
<tr>
<td>Auto Ignition:</td>
<td>ND</td>
</tr>
<tr>
<td>Odor:</td>
<td>None</td>
</tr>
<tr>
<td>pH:</td>
<td>ND</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>ND</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>ND</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>8.48</td>
</tr>
<tr>
<td>VOC:</td>
<td>ND</td>
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<tr>
<td>Flash Point:</td>
<td>ND</td>
</tr>
<tr>
<td>Upper Flammability Limit (UFL):</td>
<td>ND</td>
</tr>
<tr>
<td>Burning Rate:</td>
<td>ND</td>
</tr>
</tbody>
</table>

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability
This is a stable material.

Chemical Stability: Conditions to Avoid
None

Compatibility
Not Determined
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Hazardous Decomposition
Not Determined

Possibility of Hazardous Reactions
Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects
A: General Product Information
   No information available for the product.
B: Component Analysis - LD50/LC50
   Water (7732-18-5)
   Oral LD50 Rat >90 mL/kg

Carcinogenicity

Component Carcinogenicity
   None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

*** Section 12 - Ecological Information ***

Ecotoxicity
A: General Product Information
   No information available for the product.
B: Component Analysis - Ecotoxicity - Aquatic Toxicity
   No ecotoxicity data are available for this product's components.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

Component Waste Numbers
   No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions
   All wastes must be handled in accordance with local, state and federal regulations.
   See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information
   Shipping Name: Not Regulated

*** Section 15 - Regulatory Information ***

US Federal Regulations

Component Analysis
   None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis - State
   None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Component Analysis - WHMIS IDL
   No components are listed in the WHMIS IDL.

Additional Regulatory Information
**Material Name: Dye Additive**

### Component Analysis - Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
<th>CAN</th>
<th>EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
</tbody>
</table>

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### *** Section 16 - Other Information ***

**Other Information**
The information contained herein is based on the data available to us and is believed to be correct. However Ultra Optics Company makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

**Key/Legend**
- EPA = Environmental Protection Agency
- TSCA = Toxic Substance Control Act
- ACGIH = American Conference of Governmental Industrial Hygienists
- IARC = International Agency for Research on Cancer
- NIOSH = National Institute for Occupational Safety and Health
- NTP = National Toxicology Program
- OSHA = Occupational Safety and Health Administration
- NJTSR = New Jersey Trade Secret Registry

End of Sheet