

Colorado Photopolymer Solutions, LLC

## Safety Data Sheet



### 1. Product and Company Information

Product Name           CPS Resin: CPS 1040  
 Product Number       CPS Resin: CPS 1040

Company                Colorado Photopolymer Solutions, LLC  
 Address                1880 S. Flatiron Ct., Suite J  
                               Boulder, CO 80301

Telephone Number    303-520-4107

Emergency Number   303-520-4107

### 2. Hazard(s) Identification

Hazard Summary:      Harmful if swallowed, H302  
                               May cause an allergic skin reaction, H317  
                               May cause damage to organs through prolonged or repeated exposure,  
                               H373  
                               Very toxic to aquatic life with long lasting effects, H410

GHS Symbol:



### 3. Composition/information on Ingredients

Proprietary Resin. UV curable resin. Cures extremely rapidly to form a glassy high modulus material excellent for use in optical applications. High refractive index – 1.54. Non-yellowing. No oxygen inhibition.

### 4. First-aid Measures

General:	Remove contaminated clothing.
Eye contact:	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
Skin contact:	Wash thoroughly with soap and water. If irritation develops, seek medical attention.
Ingestion:	Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.
Inhalation:	If difficulties occur after inhalation, remove to fresh air and seek medical attention.

### 5. Fire-Fighting Measures

Flash Point:	>110°C
Auto-ignition Temperature:	Not determined
Flammability:	Not determined
Fire Fighting Information:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Emits toxic fumes under fire conditions.
Extinguishing Media:	Dry chemical, sand, carbon dioxide, foam, water spray.

### 6. Accidental Release Measures

In case of spill:	Prevent further spill or leak if possible to do so without risk. Ventilate the area. Avoid generation of vapors. Contain and collect spilled chemical with non-combustible absorbent material such as clean sand, earth, diatomaceous earth or non-acidic clay and place into suitable properly labeled containers for prompt disposal.
Personal precautions:	Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Keep unprotected persons away from chemicals.
Environmental precautions:	Keep out of drains and water courses. Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up: Absorb with an inert material and place in a chemical waste container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

## 7. Handling and Storage

Handling: Do not breathe vapor. Do not get in eyes, on skin, or clothing. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Storage: Keep in a dry, cool place. Store in closed containers, in a secure area to prevent container damage and subsequent spillage. Store out of direct sunlight in a cool well-ventilated place.

High temperatures (>80°C), pressure and contamination with peroxides may result in auto-polymerization of the product.

Unstable upon depletion of inhibitor.

## 8. Exposure Controls/ Personal Protection

General Measures: Keep away from foodstuff, beverages, and feed. Wash hands before breaks and at the end of work.

Engineering Controls: Ensure adequate ventilation. Safety shower and eye bath should be nearby. Use in a chemical fume hood.

Eye Protection: Wear eye and face protection. It is recommended to wear NIOSH or equivalent certified chemical goggles.

Hand Protection: Wear chemical-resistant gloves.

Skin and Body Protection: Wear skin protection

Ventilation: Provide natural or mechanical ventilation to minimize exposure.

## 9. Physical and Chemical Properties

Appearance: Colorless

Physical State: Liquid

Odor: Mild

pH Value: Not determined

Melting Point:	Not determined
Boiling Point:	Not determined
Flash Point:	Not applicable
Flammability:	Not applicable
Decomposition Temp.:	Not determined
Danger of explosion:	Product does not present an explosion hazard.

## 10. Stability and Reactivity

Chemical Stability:	Stable under recommended storage conditions.
Hazardous Polymerization:	Reacts rapidly upon exposure to ultraviolet light or in the presence of inhibitor depleting heat. Polymerization is hazardous and can degenerate into an uncontrolled reaction.
Incompatible materials:	Strong oxidizing agents, strong reducing agents, free radical generators, oxygen scavengers, and peroxides.
Hazardous Decomposition Products:	Acrid smoke-fumes, carbon monoxide, carbon dioxide, sulfur oxides, hydrocarbons, nitrogen oxides and perhaps other toxic vapors may be released during a fire involving this product.

## 11. Toxicological Information

Route of Exposure:	Through contact with skin or after permeation of clothing. Inhalation of vapors.
Signs and Symptoms of Exposure:	Nausea, headache, and vomiting.

## 12. Ecological Information

Toxic hazard to aquatic environment with long lasting effects. Avoid exposure to natural resources

## 13. Disposal Considerations

Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Must not be disposed of together with household garbage.

#### 14. Transport Information

UN-Number  
DOT, TDG, ADN, IMDG, IATA: Non-regulated material

UN-Proper Shipping name  
DOT, TDG, AND, IMDG, IATA: Non-regulated material

Transport hazard class(es)  
DOT, TDG, ADN, IMDG, IATA  
Class: Non-regulated material

Packing group  
DOT, ADN, IMDG, IATA: Non-regulated material

Environmental hazards: Not applicable

Special precautions for user: Not applicable

#### 15. Regulatory Information

Federal Regulations: Follow Hazardous Chemical Storage Reporting Requirements  
EPCRA 311-312

State Regulations:

HMIS: Health: 3  
Flammability: 0  
Physical Hazard: 2

Assessment of the hazard classes according to the UN GHS criteria:

Acute Aquatic Toxicity: 1  
Acute Oral Toxicity: 4  
Acute Toxicity: 4  
Chronic Aquatic Toxicity: 1  
Skin Sensitization: 1A  
Specific Target Organ Toxicity-Repeated Exposure (Liver): 2

#### 15.2 Chemical Safety Assessment:

All components in this UV formulations are registered by the following:

US- TSCA  
Present

