

Barristo Enterprises, Inc., dba SureHold®

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product Identifier SH-DLP Clear Resin, Part Number: 00960, 00965

Relevant identified uses of the substance or mixture and uses advised against

Intended Use: UV 3D Printing Resin for DLP Printers, Clear

Details of the supplier of the safety data sheet

Barristo Enterprises, Inc. dba SureHold

3717 N Ravenswood Avenue, Suite 243

Chicago, IL 60613

Email: information@surehold.com

Website: www.surehold.com

Phone: 773-472-8592; Toll Free 800-881-4495

Fax: 773-535-1750

24 Hour Emergency telephone number

Emergency Tel: 800-881-4495

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:



GHS08 Health Hazard

Repr.2 H361 Suspected of damaging fertility or the unborn child.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictogram:



GHS07

GHS08

Single word:

Warning

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements:

- | | |
|-----------|--|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P264 | Wash face, hands and any exposed skin thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P280 | Wear protective gloves. |
| P280 | Wear eye protection / face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P308+P313	If exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up
P501	Dispose of contents/container in accordance with local/regional/international regulations.

Additional information: 98.8% of the mixture consists of component(s) of unknown toxicity.

3. COMPOSITION / INFORMATION ON INGREDIENTS

General chemical description: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Chemical Name (Dangerous components)	CAS-No	Weight - %	
Ethoxylated Bisphenol A Dimethacrylate Esters		50-59%	Skin Irrit. 2, H315; Eye Irrit. 2A, H319
Phosphine oxide	75980-60-8	≤1.00%	Repr. 2, H361

4. FIRST AID MEASURES

Description of first aid measures

Inhalation:	In case of unconsciousness, place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.
Skin contact:	Immediately wash with water and soap and rinse thoroughly.
Eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Ingestion:	If symptoms persist consult doctor.

Note to Physician:

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam, CO₂, sand extinguishing powder. Do not use water. Use fire-fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents: Water

Special Hazards arising from the substance or mixture:

No further relevant information available.

Advice for fire-fighters:

Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Wear protective clothing.

Environmental precautions: Do not allow to enter sewers / surface or ground water.

Methods and material for containment and cleaning up: Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents. Dispose of the collected material according to regulations.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

PAC-1: None of the ingredients is listed.

PAC-2: None of the ingredients is listed.

PAC-3: None of the ingredients is listed.

7. HANDLING AND STORAGE

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

Information about protection against explosion and fires: Keep ignition sources away – Do not smoke. Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities:

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional Information: The lists that were valid during the creation were used as basis.

Exposure controls

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution, use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Eye/Face protection

Tightly sealed goggles.

Hand protection:

Protective gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves: The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Penetration of the glove material: the exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Body protection

Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Clear
Odor:	Characteristic

Odor threshold:	Not determined.
pH:	Not determined.
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	196°C (385°F)
Flash point:	180°C (356°F)
Flammability (solid. Gaseous):	Not applicable
Ignition Temperature	Not determined
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower:	Not determined.
Upper:	Not determined.
Vapor Pressure at 20°C (68°F):	999999 hPa (50061 mm Hg)
Density at 20°C (68°F):	1.01 g/cm ³ (8.428 lbs/gal)
Relative density:	Not determined.
Vapor density:	Not determined.
Evaporation rate:	Not determined.
Water Solubility:	No miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity: Dynamic:	Not determined.
Kinematic:	Not determined.

Other information

Organic solvents:	0.0%
VOC content:	0.0 g/l / 0.00 lb/gl
Solids content:	1.4%
Other:	No further relevant information available.

10. STABILITY AND REACTIVITY**Chemical stability:****Reactivity:** No further relevant information available.**Thermal Decomposition/Conditions to be avoided:** No decomposition if used according to specifications.**Possibility of hazardous reactions:** No dangerous reactions known.**Conditions to Avoid:** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** No dangerous decomposition products known.**11. TOXICOLOGICAL INFORMATION****Information on toxicological effects****Acute toxicity:****- LD/LC50 values that are relevant for classification:**

75980-60-8	Phosphine oxide
Oral LD50	>5000 mg/kg (rat)

- Primary irritant effect:

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.

- Sensitization: No sensitizing effects known.**- Additional toxicological information:** This product shows the following dangers according to internally approved calculation methods for preparations: Irritant

- **Carcinogenic categories**
 - **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.
 - **NTP (National Toxicology Program)**
None of the ingredients is listed.
 - **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12. ECOLOGICAL INFORMATION

Toxicity

- **Aquatic toxicity:** No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

Additional ecological information:

- General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

Other adverse effects No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings: Disposal should be made in accordance with federal, state and local considerations.

14. TRANSPORT INFORMATION

DOT	Proper shipping name	Not regulated		
IATA	Proper shipping name	Not regulated		
IMGD	Proper shipping name	Not regulated	Marine Pollutant:	No

15. REGULATORY INFORMATION

Regulatory Status and Applicable Laws and Regulations:

SARA Section 355 (extremely hazardous substances): None of the ingredients is listed.

SARA Section 313 (Specific toxic chemical listings): None of the ingredients is listed.

TSCA (Toxic Substances Control Act): All ingredients listed.

Proposition 65:

Chemicals known to cause cancer: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.

Chemicals known to cause developmental toxicity: None of the ingredients is listed.

Carcinogenic categories:

EPA (Environmental Protection Agency): None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH): None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupation Safety and Health): None of the ingredients is listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

NFPA	Health hazards 1	Flammability 1	Reactivity 0
HMIS	Health hazards 1	Flammability 1	Reactivity 0

NFPA (National Fire Protection Association)
HMIS (Hazardous Material Information System)

Other hazards: Results of PBT and vPvB assessment:
 - PBT: Not applicable.
 - vPvB: Not applicable.

Further information This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties. Substances have been classified in accordance with Regulation (EC) 1272/2008 (CLP).

Legend:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Repr. 2: Reproductive toxicity, Hazard Category 2