

Barristo Enterprises, Inc., dba SureHold®

SAFETY DATA SHEET acc. to OSHA HCS

Page 1/9

Reviewed on 03/29/2018

1 Identification

- Product identifier

- **Trade name:** UV Lacquer - Clear
- **Synonyms:** UV Cured Lacquer - Clear
- **Part number:** 2343

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

Barristo Enterprises, Inc. dba SureHold
3717 N Ravenswood Avenue, Suite 243
Chicago, IL 60613
Email: info@surehold.com
Website: www.surehold.com
Phone: 773-472-8592; Toll Free 800-881-4495
Fax: 773-535-1750

- Emergency telephone number:

United States: 800-881-4495

2 Hazard(s) identification

- Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- Label elements

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms



GHS02 GHS05 GHS07 GHS08

- Signal word Danger

- Hazard-determining components of labeling:

Acrylated Resin
Diacrylate
Phosphine oxide
UV Curing Resin
hexamethylene diacrylate
Trimethylolpropane(EO)3Triacrylate
pentaerythritol tetrakis(3-mercaptopropionate)
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

- Hazard statements

H225 Highly flammable liquid and vapor.

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2018

Reviewed on 03/29/2018

Trade name: UV Lacquer

(Contd. of page 1)

H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H361 Suspected of damaging fertility or the unborn child.

- Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P280 Wear protective gloves.
 P280 Wear eye protection / face protection.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 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/doctor.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P321 Specific treatment (see on this label).
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:

- NFPA ratings (scale 0 - 4)



Health = 3
 Fire = 3
 Reactivity = 0

- HMIS-ratings (scale 0 - 4)



HEALTH 3 Health = *3
 FIRE 3 Fire = 3
 REACTIVITY 0 Reactivity = 0

- Other hazards

- Results of PBT and vPvB assessment

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

3 Composition/information on ingredients

- Chemical characterization: Mixtures

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

- Dangerous components:

42594-17-2	Acrylated Resin	20 – 29%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
42594-17-2	Diacrylate	10 – 19%
	Repr. 2, H361; Skin Sens. 1, H317; Flam. Liq. 4, H227	
42594-17-2	UV Curing Resin	10 – 19%
	Eye Irrit. 2A, H319; Skin Sens. 1B, H317	
42594-17-2	Acrylated Resin	10 – 19%
	Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	
13048-33-4	hexamethylene diacrylate	5 – 9%
28961-43-5	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
	Trimethylolpropane(EO)3Triacrylate	5 – 9%
7575-23-7	Eye Irrit. 2A, H319; Skin Sens. 1, H317	
	pentaerythritol tetrakis(3-mercaptopropionate)	1 – 4%
75980-60-8	Acute Tox. 4, H302; Skin Sens. 1A, H317	
	Phosphine oxide	1 – 4%
	Repr. 2, H361; Skin Sens. 1, H317	

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2018

Reviewed on 03/29/2018

Trade name: UV Lacquer

(Contd. of page 2)

42978-66-5 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

≡ 1%

Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335; Flam. Liq. 4, H227

4 First-aid measures

- Description of first aid measures

- After inhalation:

Supply fresh air and to be sure call for a doctor.
In case of unconsciousness, place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

- After swallowing: If symptoms persist consult doctor.

- Information for doctor:

- **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.

- For safety reasons unsuitable extinguishing agents: Water with full jet

- Special hazards arising from the substance or mixture

No further relevant information available.

- Advice for firefighters

- 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:

Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.
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.

7 Handling and storage

- Handling:

- Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.

- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

- Conditions for safe storage, including any incompatibilities

- Storage:

- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2018

Reviewed on 03/29/2018

Trade name: UV Lacquer

(Contd. of page 3)

- **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:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

13048-33-4 hexamethylene diacrylate

WEEL	Long-term value: 1 mg/m ³
	DSEN

- **Ingredients with biological limit values:**

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **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.
Store protective clothing separately.
Avoid contact with the skin.
Avoid contact with the 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.

- **Protection of hands:**



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 the 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 can not be calculated in advance and has therefore to be checked prior to the application.
Nitrile rubber, NBR

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

- Form:	Liquid
- Color:	Clear

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2018

Reviewed on 03/29/2018

Trade name: UV Lacquer

(Contd. of page 4)

- Odor:	Characteristic
- Odor threshold:	Not determined.
- pH-value:	Not determined.
- Change in condition	
- Melting point/Melting range:	Undetermined.
- Boiling point/Boiling range:	$\geq 55.8 - \leq 56.6$ °C ($\geq 132.4 - \leq 133.9$ °F)
- Flash point:	< -18 °C (< -0.4 °F)
- Flammability (solid, gaseous):	Not applicable.
- Ignition temperature:	≥ 235 °C (≥ 455 °F)
- Decomposition temperature:	Not determined.
- Auto igniting:	Product is not selfigniting.
- Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- Explosion limits:	
- Lower:	Not determined.
- Upper:	Not determined.
- Vapor pressure:	Not determined.
- Density:	Not determined.
- Relative density	Not determined.
- Vapor density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with	
- Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water):	Not determined.
- Viscosity:	
- Dynamic:	Not determined.
- Kinematic:	Not determined.
- Solvent content:	
- Organic solvents:	9.3 %
- VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
- Solids content:	1.6 %
- Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
 - **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:		
Acrylated Resin		
Oral	LD50	500 mg/kg (ATE)
13048-33-4 hexamethylene diacrylate		
Oral	LD50	> 5,000 mg/kg (rat)

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2018

Reviewed on 03/29/2018

Trade name: UV Lacquer

(Contd. of page 5)

Dermal	LD50	> 3,000 mg/kg (rab)
7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)		
Oral	LD50	500 mg/kg (ATE)
75980-60-8 Phosphine oxide		
Oral	LD50	> 5,000 mg/kg (rat)
42978-66-5 (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate		
Oral	LD50	5,000 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

The 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.

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

- **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**

- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- UN-Number	
- DOT, IMDG, IATA	UN1090
- UN proper shipping name	
- DOT	Acetone
- IMDG	ACETONE, MARINE POLLUTANT
- IATA	ACETONE

(Contd. on page 7)

Safety Data Sheet





acc. to OSHA HCS

Printing date 03/29/2018

Reviewed on 03/29/2018

Trade name: UV Lacquer

(Contd. of page 6)

- Transport hazard class(es)	
- DOT	
	
- Class	3 Flammable liquids
- Label	3
- IMDG	
 	
- Class	3 Flammable liquids
- Label	3
- IATA	
	
- Class	3 Flammable liquids
- Label	3
- Packing group	
- DOT, IMDG, IATA	II
- Environmental hazards:	
	Product contains environmentally hazardous substances: UV Curing Resin
- Marine pollutant:	Symbol (fish and tree)
- Special precautions for user	
- Danger code (Kemler):	Warning: Flammable liquids 33
- EMS Number:	F-E,S-D
- Stowage Category	E
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
	Not applicable.
- Transport/Additional information:	
- DOT	
- Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
- IMDG	
- Limited quantities (LQ)	1L
- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture

- Sara

- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

- Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

- TSCA (Toxic Substances Control Act):

Diacylate

Sucrose Benzoate

hexamethylene diacrylate

Trimethylolpropane(EO)3Triacrylate

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2018

Reviewed on 03/29/2018

Trade name: UV Lacquer

(Contd. of page 8)

pentaerythritol tetrakis(3-mercaptopropionate)
Phosphine oxide
Ethoxylated Bisphenol A Dimethacrylate Esters
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
2-(5-methyl-2-hydroxyphenyl)-2H-benzotriazole
- TSCA new (21st Century Act) (Substances not listed)
Acrylated Resin
UV Curing Resin
Acrylated Resin
28961-43-5 Trimethylolpropane(EO)3Triacrylate

- 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.

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS - Safety, Health and Environmental Affairs**- Contact:** Safety, Health and Environmental Affairs

- Date of preparation / last revision 03/29/2018 /

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises danger uses 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
 BEL: Biological Exposure Limit
 Flam. Liq. 2: Flammable liquids – Category 2
 Flam. Liq. 4: Flammable liquids – Category 4
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
 Skin Sens. 1: Skin sensitization – Category 1
 Skin Sens. 1A: Skin sensitization – Category 1A
 Skin Sens. 1B: Skin sensitization – Category 1B
 Repr. 2: Reproductive toxicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- Disclaimer

- 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.