Printing date 02/02/2016

Resin

Reviewed on 01/26/2016

1 Identification

- · Product identifier
- · Trade name: <u>UV 91164</u>
- · Article number: UV 91164
- \cdot Details of the supplier of the safety data sheet

esigns, LLC

• Manufacturer/Supplier: Resin Designs, LLC 11 State Street WOBURN, MA 01801 USA epoznysz@resindesigns.com

• **Information department:** Product safety department • **Emergency telephone number:** Within the U.S. call Chemtrec: +1 (800) 262-8200 Outside the U.S. call Chemtrec: +1 (703) 741-5500

2 Hazard(s) identification

· Classification of the substance or mixture

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye 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



· Signal word Warning

· Hazard-determining components of labeling:

Propoxylated THFA

- · Hazard statements
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- · Precautionary statements
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves.
- P280 Wear eye protection / face protection.
- P264 Wash thoroughly after handling.
- P272 Contaminated work clothing must not be allowed out of the workplace.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P321 Specific treatment (see on this label).
- P363 Wash contaminated clothing before reuse.

(Contd. on page 2)

US

Resin Designs, LLC

Printing date 02/02/2016

Safety Data Sheet acc. to OSHA HCS

Reviewed on 01/26/2016

Trade name: UV 91164

	(Contd. of page 1)	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P501	Dispose of contents/container in accordance with local/regional/national/international	
	regulations.	
· Classification s	system:	
· NFPA ratings		
F	Health = 1 Fire = 1 Reactivity = 0 (scale $0 - 4$)	
FIRE 1	Health = 1 Fire = 1 Reactivity = 0	
· Other hazards		
· Results of PBT and vPvB assessment		
• PBT: Not applicable.		
• vPvB : Not applicable.		
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3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:		
149303-87-7	Propoxylated THFA	50-100%
1330-61-6	Isodecyl acrylate	2.5-10%
79-10-7	acrylic acid	≤ 2.5%

4 First-aid measures

- · Description of first aid measures
- \cdot General information: Immediately remove any clothing soiled by the product.
- · 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.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, 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.

(Contd. on page 3)

Printing date 02/02/2016

Resin/Designs, LLC

Trade name: UV 91164

(Contd. of page 2)

Reviewed on 01/26/2016

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.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- \cdot Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

- Ensure adequate ventilation.
- 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. Prevent formation of aerosols.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one 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 workp	lace:
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79-10-7 acrylic acid

- REL Long-term value: 6 mg/m³, 2 ppm Skin
- TLV Long-term value: 5.9 mg/m³, 2 ppm Skin

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

(Contd. on page 4)

US

Printing date 02/02/2016

Resin

Trade name: UV 91164

· Exposure controls

(Contd. of page 3)

Reviewed on 01/26/2016

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. Avoid contact with the eves and skin.

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· 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. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

· 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

Information on basic physical and o General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	95 °C (203 °F)	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	

Printing date 02/02/2016

Resin/Designs, LLC

Reviewed on 01/26/2016

Trade name: UV 91164

	(Contd. of page
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
• Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	1.03 g/cm ³ (8.595 lbs/gal)
· 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/wa	ter): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0~%
VOC content:	0.0 g/l / 0.00 lb/gl
· 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:
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- \cdot Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

\cdot IARC (International Agency for Research on Cancer)

79-10-7 acrylic acid

(Contd. on page 6)

US

3

Printing date 02/02/2016

Resin/Designs, LLC

Trade name: UV 91164

 \cdot 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.
- \cdot 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.

- \cdot 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, ADN, IMDG, IATA not regulated · UN proper shipping name not regulated · DOT, ADN, IMDG, IATA · Transport hazard class(es) · DOT, ADN, IMDG, IATA · Class not regulated · Packing group · DOT, IMDG, IATA not regulated · Environmental hazards: Not applicable. · Special precautions for user Not applicable. · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. (Contd. on page 7)

US

Reviewed on 01/26/2016

(Contd. of page 5)

Reviewed on 01/26/2016

(Contd. of page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 02/02/2016

Resin/Designs, LLC

Trade name: UV 91164

· UN "Model Regulation":

not regulated

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara
- \cdot Section 355 (extremely hazardous substances):
- None of the ingredients is listed.
- · Section 313 (Specific toxic chemical listings):
- 79-10-7 acrylic acid
- · TSCA (Toxic Substances Control Act):
- 149303-87-7 Propoxylated THFA
 - 1330-61-6 Isodecyl acrylate
 - 79-10-7 acrylic acid
- 947-19-3 1-Hydroxycyclohexyl-phenyl ketone
- 125643-61-0 A mixture of isomers of: C7-9-alkyl-3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate
- 162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
- · Proposition 65
- · Chemicals known to cause cancer:
- None of the ingredients is listed.
- \cdot 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)
- 79-10-7 acrylic acid
- \cdot NIOSH-Ca (National Institute for Occupational Safety and Health)
- None of the ingredients is listed.
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS). • **Hazard pictograms**



· Signal word Warning

• Hazard-determining components of labeling: Propoxylated THFA A4

⁻ US

Printing date 02/02/2016

Trade name: UV 91164

	(Contd. of page 7)			
· Hazard statements				
H315 Causes skin irritation.				
H319 Causes ser	ious eye irritation.			
H317 May cause	an allergic skin reaction.			
· Precautionary statements				
P261	Avoid breathing dust/fume/gas/mist/vapors/spray			
P280	Wear protective gloves.			
P280	Wear eye protection / face protection.			
P264	Wash thoroughly after handling.			
P272	Contaminated work clothing must not be allowed out of the workplace.			
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present				
	and easy to do. Continue rinsing.			
P321	Specific treatment (see on this label).			
P363	Wash contaminated clothing before reuse.			
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P302+P352	IF ON SKIN: Wash with plenty of water.			
P362+P364	Take off contaminated clothing and wash it before reuse.			
P501	Dispose of contents/container in accordance with local/regional/national/international			
	regulations.			
· 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: Environment protection department.
- · Contact: Mr. Edward Poznysz, VP of Technologies: epoznysz@resindesigns.com
- · Date of preparation / last revision 02/02/2016 / 2
- · Abbreviations and acronyms: 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) 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 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Skin Sens. 1: Sensitisation - Skin, Hazard Category 1