

MaxLight™ UV Resin Systems

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	• MaxLight™ UV Resin Systems
Trade Name	• MaxLight™ UV Resin Systems
Company	• Maxliner, 450 College Drive, Martinsville, VA 24112 USA
Company Contact	• info@maxlinerusa.com
Company Phone	• 1-877-426-5948
Emergency	• 24-Hour Emergency Contact: (Infotrac) 1-800-535-5053 • Local Emergency Contact: 1-800-535-5053

2. HAZARDS IDENTIFICATION

Hazard classification	• This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).		
	Skin irritation	• Category 2	• H315
	Eye irritation	• Category 2A	• H319
	Sensitization (Skin)	• Category 1	• H317
	Specific target organ toxicity (Single exposure) (Respiratory system)	• Category 3	• H335
Label elements	 Pictogram		
Signal word	• Warning		
Hazard Statements	H315	• Causes skin irritation	
	H319	• Causes serious eye irritation	
	H317	• May cause an allergic skin reaction	
	H335	• May cause respiratory irritation	
Precautionary Statements			
General	P101	• If medical advice is needed, have product container or label at hand	
	P102	• Keep out of reach of children	
Prevention	P261	• Avoid breathing vapor.	
	P264	• Wash hands thoroughly after handling	
	P270	• Do not eat, drink or smoke when using this product	
	P271	• Use only outdoors or in a well-ventilated area	
	P272 (OSHA)	• Contaminated work clothing must not be allowed out of the workplace	
	P280	• Wear protective gloves/protective clothing/eye protection/face protection	

2. HAZARDS IDENTIFICATION (CONTINUED)

<i>Response</i>	<i>P302+P352</i>	• IF ON SKIN: Wash with plenty of soap and water
	<i>P333+P313</i>	• If skin irritation or rash occurs: Get medical attention
	<i>P362+P364:</i>	• Take off contaminated clothing and wash it before reuse
	<i>P304+P340</i>	• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
	<i>P305+P351+P338</i>	• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	<i>P337+P313</i>	• If eye irritation persists: Get medical attention
	<i>P312</i>	• Call a POISON CENTER or doctor/physician if you feel unwell
	<i>P391</i>	• Collect spillage
<i>Storage</i>	<i>P405</i>	• Store locked up
	<i>P403+P235</i>	• Store in a well-ventilated place. Keep cool.
	<i>P233</i>	• Keep container tightly closed
<i>Disposal</i>	<i>P501</i>	• Dispose of contents and container in accordance with all local, regional, national and international regulations
<i>Hazards not otherwise classified</i>	<i>None known</i>	

3. COMPOSITION / INFORMATION ON INGREDIENTS

This product is a mixture.

Ingredient name	CAS number	Percentage
(1-methyl-1,2-ethanediyl) bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	≥25 - ≤50%
<i>Proprietary ingredient</i>	Proprietary	≥10 - ≤25
<i>Proprietary ingredient</i>	Proprietary	≤0.3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES**Description of necessary first aid measures**

<i>Eye contact</i>	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Use of buffered baby shampoo will aid in removal. If irritation persists, get medical attention.
<i>Inhalation</i>	Move the victim to a safe area as soon as possible. Allow the victim to rest in a well-ventilated area. If breathing is difficult, give oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
<i>Skin contact</i>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation persists, seek medical attention. Wash contaminated clothing before reuse. Clean shoes thoroughly before reuse.
<i>Ingestion</i>	Wash out mouth with water. Remove dentures if any. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Seek immediate medical attention.

Most important symptoms/effects, acute and delayed

<i>Eye contact</i>	Causes serious eye irritation
<i>Inhalation</i>	May cause respiratory irritation
<i>Skin contact</i>	Causes skin irritation. May cause an allergic skin reaction.
<i>Ingestion</i>	Irritating to mouth, throat and stomach

Over-exposure signs/symptoms

<i>Eye contact</i>	Adverse symptoms may include the following: pain or irritation, watering, redness.
<i>Inhalation</i>	Adverse symptoms may include the following: respiratory tract irritation, coughing.
<i>Skin contact</i>	Adverse symptoms may include the following: irritation, redness.
<i>Ingestion</i>	Adverse symptoms may include the following: Irritating to mouth, throat and stomach.

Indication of immediate medical attention and special treatment needed, if necessary.

<i>Notes to physician</i>	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
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See toxicological information (Section 11)

5. FIRE FIGHTING MEASURES**Extinguishing media**

<i>Suitable extinguishing media</i>	• Use dry chemical, CO₂, water spray (fog) or foam.
<i>Unsuitable extinguishing media</i>	• Do not use water jet.
<i>Specific hazards arising from the chemical</i>	• No specific fire or explosion hazard
<i>Hazardous thermal decomposition products</i>	• Decomposition products may include the following materials: carbon dioxide
<i>Special protective actions for fire-fighters</i>	• Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<i>Special protective equipment for fire-fighters</i>	• Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

<i>For non-emergency personnel</i>	• No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation.
<i>For emergency responders</i>	• If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. See also the information in "For non-emergency personnel".
<i>Environmental precautions</i>	• Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

<i>Small spill</i>	• Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
<i>Large spill</i>	• Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE**Precautions for safe handling**

<i>Protective measures</i>	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
<i>Advice on general occupational hygiene</i>	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. act with metals such as: Brass. Bronze. Copper. Copper alloys.
<i>Conditions for safe storage, including any incompatibilities</i>	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Segregate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Refer to the product label and/or technical data sheet for further information.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters**

<i>Occupational exposure limits</i>	None.
<i>Appropriate engineering controls</i>	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment

Individual protection measures

<i>Hygiene measures</i>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Ensure that eyewash stations and safety showers are close to the workstation location.
<i>Eye/face protection</i>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONTINUED)

<i>Hand protection</i>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<i>Body protection</i>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<i>Other skin protection</i>	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<i>Respiratory protection</i>	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL & CHEMICAL PROPERTIES

<i>Physical state</i>	Liquid
<i>Color</i>	Clear to Amber
<i>Odor</i>	Acrylate
<i>Odor Threshold</i>	Not available
<i>pH</i>	Not applicable
<i>Melting point</i>	Not available
<i>Boiling point</i>	Not applicable
<i>Flash Point</i>	>201°F / >94°C
<i>Evaporation Rate</i>	Not available
<i>Flammability (solid, gas)</i>	Not applicable
<i>Lower and upper explosion (flammable) limit</i>	Not available
<i>Vapor pressure</i>	Not available
<i>Vapor density</i>	Not established
<i>Relative density</i>	1.1 (Water = 1)
<i>Solubility</i>	Negligible.
<i>Partition coefficient: n-octanol/water</i>	Not available
<i>Auto-ignition temperature</i>	Not available
<i>Decomposition temperature</i>	Not available
<i>Viscosity</i>	Not available
<i>Molecular weight</i>	Not available

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

<i>Reactivity</i>	No specific test data related to reactivity available for this product or its ingredients.
<i>Chemical stability</i>	The product is stable. Stable under recommended storage and handling conditions (see Section 7).
<i>Possibility of hazardous reactions</i>	Under normal conditions of storage and use, hazardous reactions will not occur.
<i>Conditions to avoid</i>	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
<i>Incompatible materials</i>	Reactive or incompatible with the following materials: oxidizing materials.
<i>Hazardous decomposition products</i>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Ingredient name	Result	Species	Dose	Exposure
(1-methyl-1,2-ethanediyl) bis[oxy (methyl-2,1-ethanediyl)] diacrylate LD50 Oral Rat 6200 mg/kg – proprietary ingredient	- LD50 Oral - LD50 Dermal - LD50 Oral	- Rat - Rat - Rat	6200 mg/kg >2000 mg/kg >2000 mg/kg	- - -

Irritation/Corrosion

Ingredient name	Result	Species	Dose	Exposure	Observation
(1-methyl-1,2-ethanediyl) bis[oxy (methyl-2,1-ethanediyl)] diacrylate	- Eyes - Severe irritant - Skin - Moderate irritant	- Rabbit - Rabbit	- -	24 hours 100 uL 500 mg	- -

<i>Sensitization</i>	May cause an allergic skin reaction.
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<i>Mutagenicity</i>	No known significant effects or critical hazards
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<i>Reproductive toxicity</i>	No known significant effects or critical hazards
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<i>Teratogenicity</i>	No known significant effects or critical hazards
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<i>Specific target organ toxicity (single exposure)</i>	May cause respiratory irritation
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<i>Specific target organ toxicity (repeated exposure)</i>	No known significant effects or critical hazards
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<i>Aspiration hazard</i>	No known significant effects or critical hazards
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Potential acute health effects

<i>Eye contact</i>	Causes serious eye irritation
<i>Inhalation</i>	May cause respiratory irritation
<i>Skin contact</i>	Causes skin irritation. May cause an allergic skin reaction
<i>Ingestion</i>	Irritating to mouth, throat and stomach.

11. TOXICOLOGICAL INFORMATION (CONTINUED)**Symptoms related to the physical, chemical and toxicological characteristics**

<i>Eye contact</i>	Adverse symptoms may include the following: pain or irritation, watering, redness.
<i>Inhalation</i>	Adverse symptoms may include the following: respiratory tract irritation, coughing.
<i>Skin contact</i>	Adverse symptoms may include the following: irritation, redness
<i>Ingestion</i>	Adverse symptoms may include the following: Irritating to mouth, throat and stomach.

12. ECOLOGICAL INFORMATION**Toxicity**

Ingredient name	Result	Species	Exposure
(1-methyl-1,2-ethanediyl) bis[oxy (methyl-2,1-ethanediyl)] diacrylate	- EC50 3.68 mg/l - LC50 35.96 mg/l - LC50 4.9 mg/l	- Algae - Daphnia - Fish	96 hours 48 hours 96 hours
Persistence and degradability	Not available		

Bioaccumulative potential

Ingredient name	LogPow	BCF	Potential
(1-methyl-1,2-ethanediyl) bis[oxy (methyl-2,1-ethanediyl)] diacrylate proprietary ingredient	2 5.77	46.83 <5	- low - low

Mobility in soil

<i>Soil/water partition coefficient (KOC)</i>	Not available
<i>Other adverse effects</i>	No known effect according to our database

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid disposal. Attempt to use product completely in accordance with intended use. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION**DOT /TDG / IMDG/IMO / ICAO/IATA and National regulations.**

<i>UN number</i>	• UN3082
<i>Proper shipping name</i>	• Environmentally hazardous substance, liquid, n.o.s.(Tri(propylene glycol) diacrylate)
<i>Transport hazard class(es)</i>	• 9
<i>Packaging group</i>	• III
<i>Additional information</i>	• US regulations require the reporting of spills when the amount exceeds the Reportable Quantity (RQ) for specific components of this material. See CERCLA in Section 15, Regulatory Information, for the Reportable Quantities. • IMDG: No additional information • IATA: No additional information
<i>Environmental hazards</i>	• Marine pollutant: Yes
<i>Special precautions for user</i>	• Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. REGULATORY INFORMATION**International regulations lists**

<i>United States inventory (TSCA 8b)</i>	• All components are active or exempted
<i>Australia (AICS)</i>	• All components are active or exempted
<i>Canada (DSL)</i>	• All components are active or exempted
<i>China (IECSC)</i>	• All components are active or exempted
<i>New Zealand (NZIoC)</i>	• All components are active or exempted
<i>Philippines (PICCS)</i>	• Not determined
<i>Japan (ENCS)</i>	• All components are listed or exempted
<i>Republic of Korea (KECI)</i>	• All components are listed or exempted
<i>Taiwan (CSNN)</i>	• All components are listed or exempted

U.S. Federal regulations

<i>SARA 311/312</i>	• Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.
<i>SARA 313</i>	
<i>Form R - Reporting requirements</i>	• None
<i>CERCLA RQ</i>	• None

State regulations

<i>California Prop. 65</i>	• This product does not require a Safe Harbor warning under California Prop. 65.
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16. OTHER INFORMATION

Hazard Rating System NFPA	Health	Flammability	Instability
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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Key to abbreviations	
ATE	• Acute Toxicity Estimate
BCF	• Bioconcentration Factor
GHS	• Globally Harmonized System of Classification and Labelling of Chemicals
IATA	• International Air Transport Association
IBC	• Intermediate Bulk Container
IMDG	• International Maritime Dangerous Goods
LogPow	• logarithm of the octanol/water partition coefficient
MARPOL	• International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN	• United Nations
Disclaimer	• MAXLINER urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.