

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Name:</b> Ultrabond® 748	<b>Product Type:</b> UV Coating
<b>Company :</b> Hernon Manufacturing, Inc. 121 Tech Drive Sanford, FL 32771	<b>Contact Information:</b> Telephone: 407-322-4000 Emergency Telephone: 800-255-3924 Web Site: www.hernon.com

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

Physical state: Liquid  
Color: Clear  
Odor: Mild

**HMIS:**  
HEALTH: 2\*  
FLAMMABILITY: 1  
PHYSICAL HAZARD: 1  
Personal Protection: See Section 8

**WARNING:** MAY CAUSE EYE, AND SKIN IRRITATION.  
MAY CAUSE ALLERGIC SKIN REACTION.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.

**Primary Routes of Entry:** Skin, Inhalation, Eyes

**Signs and Symptoms of Exposure:**

**Inhalation:** May cause irritation to nose and throat.

**Skin contact:** Irritating to skin. May cause allergic skin reaction.

**Eye contact:** Vapors may irritate eyes. Contact with eyes will cause irritation.

**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

**Existing Conditions Aggravated by Exposure:** Eye, skin, and respiratory disorders.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Ingredients</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Urethane Methacrylate Oligomer	40-60	None	None	None
High Boiling Acrylate	30-40	None	None	None
Hydroxyalkyl Methacrylate	1-5	None	None	None
Acrylic acid	1-5	2 ppm TWA (skin)	10 ppm TWA 30 mg/m <sup>3</sup>	1 ppm TWA (skin) 3 ppm STEL (skin)
Photoinitiator	1-5	None	None	None
tert-Butyl peroxybenzoate	1-5	None	None	None
Substituted Silane	1-5	None	None	None
Saccharin	1-5	None	None	None

4. FIRST AID MEASURES	
<b>Ingestion:</b>	Do not induce vomiting. Keep individual calm. Obtain medical attention.
<b>Inhalation:</b>	Remove to fresh air. If symptoms develop and persist, get medical attention.
<b>Skin Contact:</b>	Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
<b>Eye Contact:</b>	Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.
5. FIRE FIGHTING MEASURES	
<b>Flash Point (TCC):</b>	Approximately 171°F
<b>Recommended Extinguishing Agents:</b>	Carbon dioxide, foam, dry chemical
<b>Special Firefighting Procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Hazardous Combustion Products:</b>	Oxides of carbon. Oxides of nitrogen. Irritating organic vapors.
<b>Unusual Fire or Explosion Hazards:</b>	None
<b>Flammable/Explosive Limits – lower %:</b>	2.0% Acrylic acid
<b>Flammable/Explosive Limits – upper %:</b>	8.0% Acrylic acid
6. ACCIDENTAL RELEASE MEASURES	
<b>Personal Precautions:</b>	Wear proper protective equipment
<b>Measures for Environmental Protection:</b>	Do not allow entry into drains or surface waters
<b>Clean-up Measures:</b>	Soak up with an inert absorbent. Store in partly filled, closed container until disposal.
7. HANDLING AND STORAGE	
<b>Handling:</b>	Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation.
<b>Storage:</b>	Store between 46° and 82°F unless otherwise labeled to preserve shelf life.
8. EXPOSURE CONTROLS, PERSONAL PROTECTION	
<b>Eye/Face Protection:</b>	Safety glasses or goggles with side shields
<b>Skin Protection:</b>	Use rubber or plastic gloves, and protective clothing as necessary
<b>Respiratory Protection:</b>	Use NIOSH approved respirator if there is a potential to exceed exposure limits
<b>Engineering Controls:</b>	Forced ventilation may be required if concentrations exceed exposure limits

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Mild
<b>Vapor Pressure:</b>	Less than 5 mm at 80°F
<b>Vapor Density:</b>	Not available
<b>Solubility in Water:</b>	Low
<b>Specific Gravity:</b>	1.07
<b>Boiling Point:</b>	> 300°F
<b>Volatile Organic Compound Content</b>	1.75%; 18.7g/L
<b>Evaporation Rate (Ether = 1)</b>	Not available
<b>pH:</b>	Does not apply

**10. STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable
<b>Hazardous Polymerization:</b>	Will not occur
<b>Hazardous Decomposition Products:</b>	Oxides of carbon. Oxides of nitrogen. Irritating organic vapors.
<b>Incompatibility:</b>	Strong oxidizers.

**11. TOXICOLOGICAL INFORMATION**

<b>Ingredients:</b>	Literature Referenced Target Organ and Other Health Effects					Carcinogen Status		
						NTP	IARC	OSHA
<b>Urethane Methacrylate Oligomer</b>	No data					NO	NO	NO
<b>High Boiling Acrylate</b>	ALG	IRR				NO	NO	NO
<b>Hydroxyalkyl Methacrylate</b>	ALG	IRR				NO	NO	NO
<b>Acrylic acid</b>	ALG	COR	IRR	KID	LIV	NO	NO	NO
<b>Photoinitiator</b>	No data					NO	NO	NO
<b>tert-Butyl peroxybenzoate</b>	CNS	IRR	MUT			NO	NO	NO
<b>Substituted Silane</b>	CNS	KID	LIV			NO	NO	NO
<b>Saccharin</b>	NTO					NO	NO	NO

**Abbreviations:**

<b>ALG</b> Allergen	<b>IRR</b> Irritant	<b>COR</b> Corrosive	<b>CNS</b> Central Nervous System
<b>LIV</b> Liver	<b>MUT</b> Mutagen	<b>KID</b> Kidney	<b>NTO</b> No Target Organs

**12. ECOLOGICAL INFORMATION**

<b>Ecological Information:</b>	Not available
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**13. DISPOSAL CONSIDERATIONS**

**Recommended methods of disposal:** Dispose of according to Federal, State and Local regulations.  
**EPA Hazardous Waste Number:** Not an RCRA hazardous waste

**14. TRANSPORTATION INFORMATION**

**U.S. Dept. of Transportation Ground (49 CFR):**

**Proper Shipping Name** Unrestricted  
**Hazard Class or Division:** None  
**Identification Number** None  
**Packing group:** None

**International Air Transportation (ICAO/IATA):**

**Proper Shipping Name:** Unrestricted  
**Hazard Class or Division:** None  
**Identification Number** None  
**Packing group:** None

**Water Transportation (IMO/IMDG):**

**Proper Shipping Name:** Unrestricted  
**Hazard Class or Division:** None  
**Identification Number** None  
**Packing group:** None  
**Marine pollutant:** None

**15. REGULATORY INFORMATION**

**United States Regulatory Information**

**TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory  
**CERCLA/SARA 313:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372): Acrylic Acid  
**California Proposition 65:** This product contains trace quantities of a chemical (or chemicals) known to the state of California to cause cancer, birth defects, and/or other reproductive harm.

**16. OTHER INFORMATION**

**Prepared By:** Jerry Litteral  
**Title:** Director - Quality & Development

**DISCLAIMER:** Some of the information presented is from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.