

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ultrabond® 55391 **Product Type:** UV Adhesive
Company : HERNON Manufacturing, Inc. **Contact Information:** Telephone: 407-322-4000
121 Tech Drive Emergency Telephone: 800-255-3924
Sanford, FL 32771 Web Site: www.hernon.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Liquid
Color: Lt Blue
Odor: Mild

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

WARNING: CAUSES SEVERE EYE IRRITATION
MAY BE HARMFUL IF SWALLOWED.
HARMFUL IF INHALED OR ABSORBED THROUGH THE SKIN
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Primary Routes of Entry: N-Vinyl - 2 - pyrrolidinone: Absorption or contact.
Signs and Symptoms of Exposure:
Inhalation: Headache, nausea, dizziness, narcosis, pallor, lack of coordination, stupor.
Eye Contact: Burning, stinging, watering, inflammation.
Skin Contact: May cause allergic response in sensitive individuals; nausea, vomiting, convulsions.
Ingestion: Nausea, vomiting, diarrhea.
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>
THF Acrylate	30-40	None	None	None
Polyester	30-40	None	None	None
N-Vinyl -2- pyrrolidinone	30-40	0.05 ppm	None	None
Photoinitiator	1-5	None	None	None

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.
Skin Contact: Flush with water
Eye Contact: Flush with water for at least 15 minutes. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point (TCC):	>200°F
Recommended Extinguishing Agents:	Carbon dioxide, foam, dry chemical
Special Firefighting Procedures:	NA
Hazardous Combustion Products:	Irritating organic vapors
Unusual Fire or Explosion Hazards:	None
Flammable/Explosive Limits – lower %:	NA
Flammable/Explosive Limits – upper %:	NA

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear proper protective equipment
Measures for Environmental Protection:	Do not allow entry into drains or surface waters
Clean-up Measures:	Soak up with an inert absorbent. Store in partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation.
Storage:	Store between 46° and 82°F unless otherwise labeled to preserve shelf life. Protect from light.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye/Face Protection:	Safety glasses or goggles with side shields
Skin Protection:	Use rubber or plastic gloves, and protective clothing as necessary
Respiratory Protection:	Use NIOSH approved respirator if there is a potential to exceed exposure limits
Engineering Controls:	Forced ventilation may be required if concentrations exceed exposure limits

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Lt Blue
Odor:	Mild
Vapor Pressure:	Unknown
Vapor Density:	> 1
Solubility in Water:	Low
Specific Gravity:	1.10
Boiling Point:	> 300°F
Volatile Organic Compound Content	NA
Evaporation Rate (Ether = 1)	NA
pH:	Does not apply

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Hazardous Decomposition Products: None
Incompatibility: Strong acids, strong bases, oxidizers.

11. TOXICOLOGICAL INFORMATION

Ingredients:	Literature Referenced Target Organ and Other Health Effects	Carcinogen Status		
		NTP	IARC	OSHA
THF Acrylate	ALG IRR	NO	NO	NO
Polyester	No data	NO	NO	NO
N-Vinyl -2- pyrrolidinone	IRR LIV SEN PCH	NO	NO	NO
Photoinitiator	No data	NO	NO	NO

Abbreviations:

ALG Allergen **IRR** Irritant **LIV** Liver **SEN** Sensory **PCH** Possible cancer hazard

12. ECOLOGICAL INFORMATION

Ecological Information: Not available

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 TOXIC LIQUID ORGANIC, N.O.S. (N-vinyl-2-pyrrolidone)
Hazard Class or Division: 6.1
Identification Number UN 2810
Packing group: III
Exceptions: Consumer Commodity ORM-D up to 1 L

International Air Transportation (ICAO/IATA):

Proper Shipping Name: TOXIC LIQUID ORGANIC, N.O.S. (N-vinyl-2-pyrrolidone)
Hazard Class or Division: 6.1
Identification Number UN 2810
Packing group: III
Exceptions: Consumer Commodity ORM-D up to 1 L

Water Transportation (IMO/IMDG):

Proper Shipping Name: TOXIC LIQUID ORGANIC, N.O.S. (N-vinyl-2-pyrrolidone)
Hazard Class or Division: 6.1
Identification Number UN 2810
Packing group: III
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): None
California Proposition 65: This product contains or may contain trace quantities of chemicals known to the state of California to cancer and/or reproductive harm - THF Acrylate
REACH regulation 67/548/EEC This product contains the following toxic chemicals subject to the reporting requirements of REACH: N-Vinyl - 2 - pyrrolidinone

16. OTHER INFORMATION

Prepared By: C. Alt
Title: Manager - 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.