

Issue Date 04-May-2023

Revision Date 16-Oct-2023

Version 1

**1. IDENTIFICATION**

**Product identifier**

**Product Name** Ultrabond 3444

**Other means of identification**

**Product Code** MS-3444

**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended Use** UV Adhesive.

**Uses advised against** None known

**Details of the supplier of the safety data sheet**

**Manufacturer Address**

Hernon Manufacturing Inc.  
121 Tech Drive  
Sanford, FL 32771  
800-527-0004

**Emergency telephone number**

**Company Phone Number** 407-322-4000

**Emergency Telephone** Chemtel 800-255-3924

**2. HAZARDS IDENTIFICATION**

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1A
Reproductive toxicity	Category 2
Flammable liquids	Category 4

**Label elements**

**Emergency Overview**

**Danger**

**Hazard statements**

Causes skin irritation

Causes serious eye damage

May cause an allergic skin reaction

Suspected of damaging fertility or the unborn child

Combustible liquid

**Appearance** No Information Available**Physical state** Liquid**Odor** Mild**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Wash face, hands and any exposed skin thoroughly after handling  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN: Wash with plenty of soap and water  
 Take off contaminated clothing and wash before reuse  
 If skin irritation or rash occurs: Get medical advice/attention  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other Information**

May be harmful if swallowed May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Chemical Name	CAS No.	Weight-%	Trade Secret
HYDROXYETHYL METHACRYLATE	868-77-9	10 - 30	*
ISOBORNYL ACRYLATE	5888-33-5	10 - 30	*
ACRYLIC ACID	79-10-7	1 - 5	*
SILANE	2530-85-0	1 - 5	*
T-BUTYL PERBENZOATE	614-45-9	1 - 5	*
PHOTOINITIATOR	75980-60-8	1 - 5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### Description of first aid measures

<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash with soap and water. Flush skin with water for several minutes. Remove contaminated clothing and shoes. If irritation develops, seek medical attention. Wash clothing before reuse.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.

##### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	None known.
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##### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically.
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#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Use CO<sub>2</sub>, dry chemical, or foam.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

##### Specific hazards arising from the chemical

None in particular.

**Hazardous combustion products** Irritating organic vapors.

##### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

##### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Use personal protective equipment as required.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.

##### Environmental precautions

<b>Environmental precautions</b>	Do not allow into any sewer, on the ground or into any body of water. Collect spillage. See section 12 for additional ecological information.
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##### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material. Store in a closed container until ready for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wash thoroughly after handling. Ensure adequate ventilation, especially in confined areas.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep at temperatures between 46°F and 82°F (8°C and 28°C).

**Incompatible materials** Strong acids. Strong bases. Oxidizers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
N-VINYL-2- PYRROLIDINONE 88-12-0	TWA: 0.05 ppm	-	-

### Appropriate engineering controls

**Engineering Controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing. Use rubber or plastic gloves.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Odor</b>	Mild
<b>Appearance</b>	No Information Available	<b>Odor threshold</b>	Not Applicable
<b>Color</b>	Clear		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Does not apply	
Melting point / freezing point	No Information Available	
Boiling point / boiling range	> 149 °C / 300 °F	
Flash point	> 93 °C / 200 °F	
Evaporation rate	No Information Available	

Flammability (solid, gas)	No Information Available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No Information Available
Vapor density	> 1
Relative density	1.05
Water solubility	Low
Solubility in other solvents	No Information Available
Partition coefficient	No Information Available
Autoignition temperature	No Information Available
Decomposition temperature	No Information Available
Kinematic viscosity	No Information Available
Dynamic viscosity	No Information Available
Explosive properties	None known
Oxidizing properties	Not Applicable

**Other Information**

Softening point	No Information Available
Molecular weight	No Information Available
VOC Content (%)	Not Applicable
Density	1.05
Bulk density	No Information Available

**10. STABILITY AND REACTIVITY****Reactivity**

Not Applicable

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

<b>Hazardous polymerization</b>	None under normal processing.
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**Conditions to avoid**

Incompatible materials.

**Incompatible materials**

Strong acids. Strong bases. Oxidizers.

**Hazardous Decomposition Products**

None known.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	No known effect based on information supplied.
<b>Eye contact</b>	Avoid contact with eyes.
<b>Skin contact</b>	Avoid contact with skin.

**Ingestion**

Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
N-VINYL-2- PYRROLIDINONE 88-12-0	= 830 mg/kg ( Rat )	= 560 mg/kg ( Rabbit )	= 3070 mg/m <sup>3</sup> ( Rat ) 4 h

**Information on toxicological effects****Symptoms**

See Section 11: TOXICOLOGICAL INFORMATION.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Sensitization**

None known.

**Germ cell mutagenicity**

None known.

**Carcinogenicity**

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Chemical Name	ACGIH	IARC	NTP	OSHA
N-VINYL-2- PYRROLIDINONE 88-12-0	A3	Group 3	-	-

**Reproductive toxicity**

None known.

**STOT - single exposure**

No known effects under normal use conditions.

**STOT - repeated exposure**

None under normal use conditions.

**Aspiration hazard**

Not Applicable.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 2,970.70 mg/kg

ATEmix (dermal) 4,600.60 mg/kg

ATEmix (inhalation-dust/mist) 21.10 mg/l

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Very toxic to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
N-VINYL-2- PYRROLIDINONE 88-12-0	780: 72 h Desmodesmus subspicatus mg/L EC50	-	45: 48 h Daphnia species mg/L EC50

**Persistence and degradability**

None known.

**Bioaccumulation**

None known.

Chemical Name	Partition coefficient
N-VINYL-2- PYRROLIDINONE 88-12-0	0.4

**Other adverse effects****13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container.

**14. TRANSPORT INFORMATION**DOT

Not Regulated

**15. REGULATORY INFORMATION**International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

All ingredients are on the inventory or are exempt from listing.

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

US Federal RegulationsSARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State RegulationsCalifornia Proposition 65

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
N-VINYL-2- PYRROLIDINONE 88-12-0	X	-	-

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not Applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b><u>NFPA</u></b>	Health hazards 0	Flammability 0	Instability 0	Physical and Chemical Properties Not Applicable
<b><u>HMIS</u></b>	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection X

Prepared By SDS coordinator  
Issue Date 04-May-2023  
Revision Date 16-Oct-2023

Revision Note

Not Applicable

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**