

**VACUUM PRESSING SYSTEMS INC.**  
**MATERIAL SAFETY DATA SHEET**

No. 4010

<b>SECTION I General Information</b>	<b>Emergency Telephone Number</b>
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Company Name and Address:  
**Vacuum Pressing Systems**  
553 River Road  
Brunswick, Maine 04011

Technical Assistance: 207-725-0935  
**24 Hour Emergency:**  
Chemtrec 1-800-424-9300

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Latest Revision: 4/12  
Supersedes: 3/12

Trade Name(s) and Synonyms:  
Modified Urea Resin, UNIBOND 800  
Liquid Urea Formaldehyde Resin Adhesive

<b>SECTION II Hazardous Ingredients</b>	<b>Approx %</b>	<b>Exposure Limits</b>
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Formaldehyde (50-00-0)*	<0.4	PEL 0.75ppm TWA (OSHA) STEL/Ceiling 2ppm/15 Min. (OSHA) STEL/Ceiling 0.3ppm (ACGIH)
Furfuryl Alcohol (98-00-0)	21	TLV 10ppm TWA (ACGIH) TLV 15ppm STEL (ACGIH) PEL 50ppm TWA (OSHA)

<b>SECTION III Physical and Chemical Characteristics</b>
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**Boiling Point (F):** 212-220

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**Specific Gravity:** 1.26

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**% Volatile (Approx.):** 40

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**Physical and Chemical Descriptions:**  
Off white, water solution of urea formaldehyde resin & furfuryl alcohol.  
Odor: formaldehyde, furfuryl alcohol

Formulated Product Mixture

<b>SECTION IV Physical Hazards (Fire and Explosion)</b>
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**Flash Point:** N/A (water based)

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**Extinguishing Media:** Water spray, CO<sub>2</sub>, alcohol foam, or dry chemical.

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**Hazardous Decomposition Products:** Combustion may produce formaldehyde, methanol, nitrogenous products, carbon dioxide, and carbon monoxide.

**Unusual Fire and Explosion Hazards/Procedures:** Acid contamination could cause exothermic polymerization. Firefighters should wear personal protective equipment and self contained breathing apparatus. Use water spray to cool containers exposed to fire.

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<b>SECTION V Health Hazard Data</b>
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**Exposure Limits:** Refer to Section II.

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**Primary Route of Entry (Target Organs):**

**Inhalation:** Respiratory system, mucous membranes

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**Contact:** Eyes, skin

**Ingestion:** Mouth, throat, stomach, pharynx

**Emergency and First Aid Procedures:**

**Inhalation:** Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Obtain immediate medical attention.

**Eyes:** Flush eyes with water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin:** Wash affected area thoroughly with soap and water. Remove any contaminated clothing and shoes. Launder prior to reuse. Seek medical attention if irritation occurs.

**Ingestion:** Drink large quantity of milk or water. Consult physician or poison control center for further instruction. Do not give anything by mouth to an unconscious person.

**Chronic Health Hazards:** Formaldehyde is an irritant and respiratory and skin sensitizer. Formaldehyde and furfuryl alcohol may cause an allergic reaction in some workers. Employees who show extreme sensitivity to formaldehyde and/or furfuryl alcohol should not be exposed to it.

**Effects of Overexposure:** Effects of overexposure to formaldehyde may include nausea, headache, or weakness; irritation of upper respiratory passages; temporary lung irritation resulting in coughing, difficulty in breathing, or shortness of breath. Effects of overexposure to furfuryl alcohol may include detection of a strong odor, headache, irritation of skin, eyes, and respiratory tract, and central nervous system depression.

**Carcinogenic Status:** Formaldehyde is listed by NTP to be reasonably anticipated to be carcinogenic to humans. IARC considers formaldehyde to be a probable carcinogen to humans. OSHA lists formaldehyde as a potential carcinogen.

**Conditions Aggravated by Exposure:** Preexisting respiratory disorders.

SECTION VI Chemical Hazard Data (Reactivity)

**Stability (Conditions to Avoid):** Stable under normal temperature and pressure. Avoid extreme temperatures, particularly heat.

**Incompatibility (Materials to Avoid):** Avoid contact with acids and oxidizers.

**Hazardous Decomposition Products:** Combustion may produce formaldehyde, methanol, nitrogenous products, carbon dioxide, and carbon monoxide.

SECTION VII Spill or Leak Procedures

**Steps to be taken if Released or Spilled:** Dike spilled material with absorbent to prevent release to sewer system, groundwater, surface water, or any other body of water. Use fans to ventilate area. Scoop up with absorbent material into appropriate and properly labeled containers. Wear personal protective equipment during cleanup procedures.

**Waste Disposal Method:** Dispose according to Federal, State and Local Regulations.

**SECTION VIII Special Protection Information**

**Ventilation:** Ventilation should be used to keep exposure levels below guidelines listed in Section II.

**Respiratory Protections:** Required if exposure levels listed in Section II are exceeded.

**Eye Protection:** Chemical safety glasses/goggles with face shield recommended.

**Protective Gloves:** Rubber or plastic gloves should be worn during handling.

**Other Protective Equipment:** Protective clothing to protect employee from splashing is recommended. Physical contact with resin should be avoided since many workers have or develop allergic sensitivity to formaldehyde upon repeated exposure.

**SECTION IX Transportation of Dangerous Goods Regulations**

Not Regulated Unless in Tanker Quantities  
Formaldehyde RQ 100 (Product Total 25,000 lbs)

**Proper Shipping Name:** RQ, Environmentally Hazardous Substances, Liquid, N.O.S., (Formaldehyde)  
**Hazard Class:** 9  
**UN Number:** UN3082  
**Packaging Group:** III  
**Label:** Class 9 Miscellaneous  
**Placard:** Class 9 Miscellaneous

**SECTION X Special Precautions/Procedures/Comments**

**Precautions in Handling and Storing:** Avoid contamination with acids and protect from extreme temperatures. Keep container closed. Wear protective equipment to avoid splashes and vapors. Avoid direct skin contact. Do not smoke or eat in handling area. Store in a cool, dry, well-ventilated location, away from acids and oxidizers.

**Comments:** (Mildly corrosive) In normal use, the Hazard Level of this product is medium. Precautions should be taken when formaldehyde liquid or vapor is present.

**SARA, TITLE III, SEC. 313 NOTIFICATION**  
See Section II - Chemicals marked with an asterisk (\*) are subject to reporting requirements of Sec. 313.

<b>PRODUCT HAZARD RATING</b>	
<b>REALISTIC FOR USE:</b>	
(NONE-LOW-MEDIUM-HIGH)	
HEALTH	- Medium (2)
FIRE	- Low (1)
REACTIVITY	- Low (1)

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Vacuum Pressing Systems Inc. makes no warranty with respect thereto and disclaims all liability from reliance thereon.