

MATERIAL SAFETY DATA SHEET

1. Product Information

Product Name: Water Bond™ - Part A

Product Code: NPI080

HMIS CODES: H-2,F-1, R-0, P-0

2. Hazardous Ingredients/SARA III Information

WEIGHT

Hazardous Components

	CAS Number	OSHA PEL	ACGIH TLV	OSHA STEL	mm Hg @ Temp	Percent
1,2 Ethane Diamine, N-(2-Amino Ethyl)	111-40-0	1ppm	1ppm	None	0.0	68F
Tetraethylene Pentamine	112-57-2	None	None	None		N/A
Ethylenediamine	107-15-3	10 ppm	10ppm	10ppm	10.7	58F
Pentaethylene Hexamine	4067-16-7	None	None	None		N/A
Water	7732-18-5	None	None	None		N/A
Propylene Glycol Monomethyl Ether	107-98-2	100ppm	100ppm	150ppm	10.9	77F
Glacial Acetic Acid	64-19-7	10ppm	10ppm	15ppm	11.0	68F
Stoddard Solvent	8052-41-3	100ppm	100ppm	None	2.0	68F
2-Ethyl-1-Hexanol	104-76-7	None	None	None	10.0	68F
*Glycol Ether 2-Butoxyethanol	111-76-2	25ppm	None	10.0		97F<0.5%
Proprietary Additive NJTSRN 800963- 5170	None	None	None			N/A
Pigment Non Hazardous in Liquid Form	10mg/m3	10mg/m3	5mg/m3			N/A
Filler Non Hazardous in Liquid Form	20mppcf	3mg/m3	None			N/A

OCCUPATIONAL EXPOSURE LIMITS

VAPOR PRESSURE

* No toxic chemical(s) subject to the reporting requirement of section 313 of Title III and of 40 CFR 372 are present.

3. Physical/Chemical Characteristics

Boiling Point: 212°F **Specific Gravity (H2O = 1):** 1.2 **Vapor Density:** N/A **Evaporation Rate:** N/A **Solubility in Water:** Emulsifiable
Appearance and Odor: Low Viscosity Liquid in Varying Colors

4. Fire and Explosion Hazard Data

Flash Point: 200+°F **Method Used:** Seta Flash **Flammable Limits in Air by Volume:** Lower: N/A Upper: N/A
Extinguishing Media: Foam, Alcohol foam, CO2, water fog **Special Firefighting Procedures:** Toxic fumes will be evolved when this material is involved in a fire. A self contained breathing apparatus should be available for fire fighters. Cool fire exposed containers with water.
Unusual Fire and Explosion Hazards: None known.

5. Reactivity Data

Stability: Stable **Conditions to avoid:** Avoid contact with open flames and all sources of ignitions and sparks. **Incompatibility (Materials to Avoid):** Avoid contact with strong oxidizing agents, mineral acids and epoxy resins in uncontrolled amounts. **Hazardous Decomposition or Byproducts:** CO, CO2, NOX. **Hazardous Polymerization:** Will not occur

6. Health Hazard Data

Inhalation Health Risks and Symptoms of Exposure: High concentrations of vapor can cause irritation to the respiratory tract, nausea and dizziness.

Skin and Eye Contact Health Risks and Symptoms of Exposure: Irritation to the skin can occur but dermal absorption toxicity is low. This material can cause eye irritation or redness.

Skin Absorption Health Risks and Symptoms of Exposure: None known.

Ingestion Health Risks and Symptoms of Exposure: Ingestion of material can cause nausea or other similar responses.

Health Hazards (Acute and Chronic): Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic responses.

Carcinogenicity: NTP? No IARC Monographs? No OSHA REGULATED? No No constituents or this product are regulated as carcinogens under OSHA IARC, or NTP programs.

Medical Conditions Generally Aggravated By Exposure: Respiratory conditions or other allergic response.

Emergency and First Aid Procedures: **Eyes:** Immediately flush with large amounts of water for at least 15 minutes while lifting upper and lower lids. Get immediate medical assistance. **Skin:** Flush skin with water for at least 15 minutes and remove all contaminated clothing immediately. Get medical attention if reddening or swelling occurs. **Inhalation:** Remove to fresh air if effects persist and administer oxygen if necessary.

Ingestion: Do not induce vomiting. Dilute by giving water or milk to drink if victim is conscious, get medical attention immediately.

7. Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Avoid contact with material. Wear the appropriate safety equipment. Stop spill at source, dyke area to prevent spreading. Pump liquid to salvage tank. Take up remainder with clay or other absorbent and place in disposal containers.

Waste Disposal Method: Dispose of material as a hazardous waste according to Federal, State and Local regulations. **Precautions to be taken in handling and storing:** Avoid all skin contact. Avoid breathing vapors. Reseal partially used containers. Properly label all containers. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Observe conditions of good industrial hygiene and safe working practices. **Other**

Precautions: Mixed materials contain the hazards of all the components, therefore, read the MSDS of all components to become familiar with all hazards prior to using this product.

8. Control Measures

Respiratory Protection: NIOSH approved respirator protection required in the absence of proper environmental controls. **Ventilation:** Avoid breathing vapors. Ventilation must be sufficient to control vapors. **Protective Gloves:** Impervious gloves - neoprene or rubber **Eye Protection:** Splash proof goggles or safety glasses with side shields **Other Protective Clothing or Equipment:** Clean body covering clothing as well as apron footwear or other equipment should be used as deemed necessary to avoid contact with the material. **Work/Hygienic Practices:** Observe general good hygienic practices.

9. Hazardous Classification

Nonregulated

date of prepn: 1/01/01

Manufactured by: NPI in PA

Distributed by: Progressive Epoxy Polymers - 48 Wildwood Drive - Pittsfield, NH 03263 - Tel: 603-435-7199 - Fax: 603-435-7182

1. Product Information

Product Name: Water Bond™ - Part B Curing Agent

Product Code: NPI080

HMIS CODES: H-1,F-1, R-0, P-B

2. Hazardous Ingredients/SARA III Information

Hazardous Components	CAS Number	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE WEIGHT	
		OSHA PEL	ACGIH TLV	OHSA STEL	mm Hg @ Temp	Percent
Modified Diglycidyl Ether of Bisphenol A	25068-38-6	None	None	None	1.0	356F
Alkyl Glycidyl Ether	68609-97-2	None	None	None	N/A	

* No toxic chemical(s) subject to the reporting requirement of section 313 of Title III and of 40 CFR 372 are present.

3. Physical/Chemical Characteristics

Boiling Point: 200°F **Specific Gravity (H2O = 1):** 1.1
Negligible **Appearance and Odor:** Low viscosity liquid

Vapor Density: N/A **Evaporation Rate:** N/A **Solubility in Water:**

4. Fire and Explosion Hazard Data

Flash Point: 200+°F **Method Used:** Seta Flash **Flammable Limits in Air by Volume:** Lower: N/A Upper: N/A
Extinguishing Media: Foam, Alcohol foam, CO2, dry chemical, water fog **Special Firefighting Procedures:** Do not enter confined fire area without full bunker gear including a positive pressure NIOSH approved self-contained breathing apparatus. Cool all fire exposed containers with water.
Unusual Fire and Explosion Hazards: None known.

5. Reactivity Data

Stability: Stable **Conditions to avoid:** Avoid excessive heat or open flames. **Incompatibility (Materials to Avoid):** Can react vigorously with strong oxidizing agents and strong lewis acids or mineral acids. **Hazardous Decomposition for Byproducts:** CO2, Aldehydes, acids. Reacting with some curing agents can generate large amounts of heat. **Hazardous Polymerization:** Will not occur

6. Health Hazard Data

Inhalation Health Risks and Symptoms of Exposure: No guide for control known, however, exposure to heated vapors can cause irritation to the nose, throat or mucous membranes as well as damage to red blood cells.
Skin and Eye Contact Health Risks and Symptoms of Exposure: Skin: May cause irritation or allergic skin response. Eyes: May cause irritation and may cause corneal damage. Product is presumed to be toxic and is harmful if absorbed through the skin.
Skin Absorption Health Risks and Symptoms of Exposure: Product is presumed to be toxic and is harmful if absorbed through the skin.
Ingestion Health Risks and Symptoms of Exposure: This material is moderately toxic and may be harmful if ingested. Ingestion may cause damage to red blood cells.
Health Hazards (Acute and Chronic): Epoxy resins can cause sensitization by exposure through contact or high concentrations of vapor. Eyes: Injury can occur so stain for evidence of corneal damage.
Carcinogenicity: NTP? No IARC Monographs? No OSHA REGULATED? No No constituents of this product are regulated as carcinogens under OSHA, IARC, or NTP programs.
Medical Conditions Generally Aggravated By Exposure: Respiratory conditions or other allergic response.
Emergency and First Aid Procedures: Eyes: Flush with water for at least fifteen minutes and consult a physician.
Skin: Skin contact will normally cause no more than irritation but wash affected area with soap and water and remove contaminated clothing promptly.
Inhalation: Remove victim to fresh air area and administer oxygen if necessary.
Ingestion: Low in toxicity, induce vomiting only if large amounts of material are ingested, otherwise do not induce vomiting. In either case immediately consult with a physician.

7. Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Wear respirator and protective clothing. Shut off the source at the leak. Remove excess with vacuum truck and take up the remainder with an absorbent such as clay and place in disposal containers. Flush area with water to remove residue.
Waste Disposal Method: Dispose of the material in a waste disposal site in accordance with local, state and federal laws. **Precautions to be taken in handling and storing:** Store in cool dry place. Seal all partially used containers. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Mixed materials contain the hazards of all the components, therefore, read the MSDS of all components to become familiar with all hazards prior to using this product. **Other Precautions:** Avoid all skin contact. Avoid breathing vapors generated from the material. Observe conditions of good general hygiene and safe working practices. Contaminated leather articles cannot be cleaned and must be discarded if contaminated with this product. Wash all contaminated clothing prior to the reuse thereof.

8. Control Measures

Respiratory Protection: Use a NIOSH approved respirator as required to prevent over-exposure to vapor in accordance with 29 CFR 1910.134.
Ventilation: General exhaust is usually sufficient to control vapors and exposure hazards. However, if ventilation is not sufficient to control vapors, a NIOSH approved respirator must be used. **Protective Gloves:** Impervious gloves - neoprene or rubber **Eye Protection:** Splash goggles or glasses with side shields **Other Protective Clothing or Equipment:** Wear body covering clothing and other coverings as necessary such as apron and appropriate footwear to avoid contact with material. **Work/Hygienic Practices:** Observe good general hygienic practices

9. Hazardous Classification

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