



B610-0015 Water Base Urethane

MATERIAL SAFETY DATA SHEET

RPM Wood Finishes Group
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FOR ALL INTERNATIONAL TRANSPORTATION ACCIDENTS. 1-703-527-3887 (collect)

Health: 1 Flammability: 0 Reactivity 0

PRODUCT NAME: B610-0015 Water Base Urethane

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 10/11/03
SUPERCEDES: 19/02/02
MSDS NO. B610-0015

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
polyurethane dispersion non volatiles	1-10	proprietary	No PEL established
1-methyl-2-pyrrolidone	1-10	872-50-4	No PEL established
Texanol	1-10	25265-77-4	No PEL established
Dipropylene glycol monomethyl ether	1-10	34590-94-8	No PEL established
Triethylamine	<1	121-44-8	25 ppm TWA; 100 mg/m3 TWA
Waterbased Defoamer	<1		No PEL established
Ammonia	<1	7664-41-7	50 ppm TWA; 35 mg/m3 TWA
isopropanol	<1	67-63-0	400 ppm TWA; 980 mg/m3 TWA

III. HAZARDS IDENTIFICATION

Routes of Entry: Inhalation., Eye contact., Skin contact., Ingestion., Absorption.
Medical Conditions Aggravated: Eye disease. Respiratory disease including asthma and bronchitis. Kidney disease. Liver disease. Skin disease including eczema and sensitization.

Immediate (Acute) Health Effects

Inhalation: Irritation may be delayed for several hours. Can be corrosive to the respiratory tract causing severe irritation and tissue damage.

Skin Contact: Substance is corrosive. Causes severe skin burns. Corrosive to skin tissue. Can cause chemical burns.

Eye Contact:	Contact may cause eye irritation and transient corneal damage. Can cause minor irritation, tearing and reddening. Corrosive to eye tissue. Can cause severe irritation, tearing, and burns that can quickly lead to permanent injury including blindness. Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.
Skin Absorption:	Substance can be absorbed through the skin in harmful amounts. Substance is harmful if absorbed through the skin. Large exposures may be fatal. Harmful if absorbed through the skin. May cause severe irritation and systemic damage.
Ingestion:	Harmful if swallowed. Corrosive to tissue. Can cause severe and permanent damage to mouth, throat, stomach. Aspiration may lead to lung damage.
Target Organ Acute Toxicity:	
Dipropylene glycol, methyl ether	eyes, respiratory system, CNS
Triethylamine	skin, eyes, respiratory system, CVS, liver, kidney
Ammonia	respiratory system, eyes, skin
Isopropyl alcohol	eyes, skin, respiratory system

Long-Term (Chronic) Health Effects:

Carcinogenicity:	None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA.
Reproductive and Developmental Toxicity:	No data. No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
Inhalation:	Upon prolonged and/or repeated exposure, can be corrosive to the respiratory tract causing severe irritation and tissue damage.
Skin Contact:	Upon prolonged or repeated contact, corrosive to skin tissue. Can cause chemical burns.
Eye Contact:	Upon prolonged or repeated contact, may become corrosive to eye tissue. Can cause severe irritation, tearing, and burns that can lead to permanent injury including blindness.
Skin Absorption:	Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.
Target Organ Chronic Toxicity:	Spleen. Bone. Eyes. Nervous System. Respiratory Tract. Kidneys. Liver. Skin.
Supplemental Health Hazard Information:	No additional health information available.

IV. FIRST AID

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
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Eyes: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact: Immediately flush with water for 15 minutes. Wash the contaminated skin with soap and water. If irritation develops, call a physician. Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately from other articles before reuse. Wash with soap and water under a drench shower. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.

Ingestion: Drink 1-2 glasses of water or milk. Get medical attention. Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS.

Notes to MD: No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point: >200 (CALC.) °F

Fire Hazards: Pressurized container may explode when exposed to heat or flame. Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back.

Extinguishing Media: Use methods suitable to fight surrounding fire. Water spray Dry chemical Foam Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.

Hazardous Combustion Products: Carbon monoxide Ammonia Hydrogen Nitrogen containing gases

VI. ACCIDENTAL RELEASE MEASURES

Health Consideration for Spill Response: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section VIII of this MSDS

Spill Mitigation Procedures General Methods: No special spill clean-up considerations. Collect and discard in regular trash.

VII. HANDLING AND STORAGE

Handling: "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash thoroughly after handling. Use spark-proof tools and explosion-proof equipment. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid contact with material. Do not enter storage area unless adequately ventilated. Remove contaminated clothing and wash before reuse. Mildly irritating material. Avoid unnecessary exposure.

Storage: Keep from freezing. No special requirements.

VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls: Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Facilities storing or using this material should be equipped with an eyewash and safety shower. Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Protective Equipment

Respiratory Tract: Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage should be implemented.

Eyes: Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

IX. PHYSICAL DATA

Physical State:	CLOUDY LIQUID
Odor:	NONE TO VERY FAINT
Solids Vol %:	16.734
Solids Wt %:	19.4168
Material VOC lbs/gal:	0.7823
Material VOC gms/l:	93.944
Coatings VOC lbs/gal:	2.9727
Coatings VOC gms/l:	356.9921
Weight per gallon:	8.6695

X. STABILITY AND REACTIVITY

Stability Information: Stable. Stable under normal conditions.

Conditions to Avoid: Visible light. Contact with water. High humidity. Contact with air. Avoid: heat, sparks, flame and oxidizing agents. None known.

Chemical Incompatibility: Chlorinated compounds. Strong oxidizing agents. Strong acids. Metals.

Hazardous Polymerization: Hazardous Polymerization will not occur.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	CAS Number	LD50/LC50
2-Pyrrolidinone, 1-methyl-	872-50-4	Oral LD50 Rat : 3914 mg/kg; Oral LD50 Mouse : 5130 mg/kg; Dermal LD50 Rabbit : 8 gm/kg
Propionic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol	25265-77-4	Oral LD50 Rat : 3200 mg/kg; Oral LD50 Mouse : 3200 mg/kg
Dipropylene glycol, monomethyl ether	34590-94-8	Oral LD50 Rat : 5400 uL/kg; Dermal LD50 Rabbit : 10 mL/kg
Triethylamine	121-44-8	Inhalation LC50 Mouse : 6 gm/m3; Oral LD50 Rat : 460 mg/kg; Oral LD50 Mouse : 546 mg/kg; Dermal LD50 Rabbit : 570 uL/kg
Ammonia	7664-41-7	Inhalation LC50 Rat : 2000 ppm/4H; Inhalation LC50 Mouse : 4230 ppm/1H
Isopropyl alcohol	67-63-0	Inhalation LC50 Rat : 16000 ppm/8H; Oral LD50 Rat : 5045 mg/kg; Oral LD50 Mouse : 3600 mg/kg; Dermal LD50 Rabbit : 12800 mg/kg

XII. ECOLOGICAL INFORMATION

Overview (for ingredients): No data available. This material is not expected to be harmful to the ecology.

XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product: Spent or discarded material is a hazardous waste.

Disposal Methods: Perform waste water treatment. Dispose of in a landfill. Disposal is not likely to be regulated.

Potential EPA Waste Codes: If discarded, this product is considered a RCRA ignitable waste, D001.

Components Subject to USEPA Land Disposal Restrictions:

Triethylamine	121-44-8	0.33 %
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XIV. TRANSPORTATION INFORMATION

DOT NON REGULATED

XV. REGULATORY INFORMATION

Chemical Name	Regulation	CASRN	%
N-Methyl-2-pyrrolidinone	SARA 313 Reportable:	872-50-4	5.37
Triethylamine	SARA 313 Reportable:	121-44-8	0.33
Ammonia	SARA 313 Reportable:	7664-41-7	0.02
Isopropyl alcohol	SARA 313 Reportable:	67-63-0	0.01
Ammonia	Extremely Haz. Substances:	7664-41-7	0.02
TPQ = 500 pounds; RQ = 100 pounds (does not meet toxicity criteria but because of high production volume and recognized toxicity is considered a chemical of concern)	SARA Threshold Planning Quantity:	7664-41-7	0.02
1-Methyl-2-pyrrolidone	California Proposition 65 Developmental Toxicity:	872-50-4	5.37
polyurethane dispersion non volatiles	New Jersey Right To Know:	proprietary	6.23
1-methyl-2-pyrrolidone	New Jersey Right To Know:	872-50-4	5.37
Polymer/Solids	New Jersey Right To Know:	PROPRIETARY	5.14
Acrylic Copolymer	New Jersey Right To Know:	PROPRIETARY	4.21
Texanol	New Jersey Right To Know:	25265-77-4	2.07

Dipropylene glycol monomethyl ether	New Jersey Right To Know:	34590-94-8	1.03
Triethylamine	New Jersey Right To Know:	121-44-8	0.33

XVI. ADDITIONAL INFORMATION

Other Information:

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MSDS glossary.