



B610-0005 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: 2 Flammability: 1 Reactivity 0

PRODUCT NAME: B610-0005 Water Base Urethane

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 19/02/02
SUPERCEDES: None
MSDS NO. B610-0005

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
1-Methyl-2-pyrrolidinone	1-10	872-50-4	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
isopropanol	<1	67-63-0	400 ppm TWA; 980 mg/m3 TWA
Ammonia	<1	7664-41-7	50 ppm TWA; 35 mg/m3 TWA

III. HAZARDS IDENTIFICATION

Routes of Entry: Inhalation., Ingestion., Absorption., Skin contact., Eye contact.
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 eye tissue. Can cause severe irritation, tearing, and burns that can quickly lead to permanent injury including blindness.

Eye Contact: Corrosive to eye tissue. Can cause severe irritation, tearing, and burns that can quickly lead to permanent injury including blindness.

Skin Absorption: 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
Isopropyl alcohol	eyes, skin, respiratory system
Ammonia	respiratory system, eyes, skin

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.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Target Organ Chronic Toxicity: 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 not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. 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.

Eyes: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. This corrosive material can cause immediate and permanent eye damage. 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 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: Corrosive. Do not induce vomiting! Drink one glass of water followed by milk if available. Seek medical attention immediately and give the medical care provider this MSDS.

Notes to MD: No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point:	60C; 140F
Fire Hazards:	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 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:	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.
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.
Storage:	Keep from freezing.

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.
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 %: 17.2247
Solids Wt %: 19.6538
Material VOC lbs/gal: 0.8302
Material VOC gms/l: 99.6962
Weight per gallon: 8.578

X. STABILITY AND REACTIVITY

Conditions to Avoid: Contact with air. Visible light. Avoid: heat, sparks, flame and oxidizing agents.

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

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
Dipropylene glycol, monomethyl ether Triethylamine	34590-94-8 121-44-8	Oral LD50 Rat : 5400 uL/kg; Dermal LD50 Rabbit : 10 mL/kg Inhalation LC50 Mouse : 6 gm/m3; Oral LD50 Rat : 460 mg/kg; Oral LD50 Mouse : 546 mg/kg; Dermal LD50 Rabbit : 570 uL/kg
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
Ammonia	7664-41-7	Inhalation LC50 Rat : 2000 ppm/4H; Inhalation LC50 Mouse : 4230 ppm/1H

XII. ECOLOGICAL INFORMATION

Overview (for ingredients): No data available.

Ecological Toxicity Values:

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

0.36 %

XIV. TRANSPORTATION INFORMATION**DOT** Paint 3 UN1263 PGII**XV. REGULATORY INFORMATION**

Toxic Substances Control Act (TSCA): This substance is listed on the TSCA Inventory of Existing Chemical Substances.

Chemical Name	Regulation	CASRN	%
N-Methyl-2-pyrrolidinone	SARA 313 Reportable:	872-50-4	5.97
Triethylamine	SARA 313 Reportable:	121-44-8	0.36
Isopropyl alcohol	SARA 313 Reportable:	67-63-0	0.02
Ammonia	SARA 313 Reportable:	7664-41-7	0.02
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-pyrrolidinone	California Proposition 65 Developmental Toxicity:	872-50-4	5.97
Water	New Jersey Right To Know:		70.65
Urethane Polymer	New Jersey Right To Know:		6.64
1-Methyl-2-pyrrolidinone	New Jersey Right To Know:	872-50-4	5.97
Polymer/Solids	New Jersey Right To Know:		5.64
Acrylic Copolymer	New Jersey Right To Know:		4.49

XVI. ADDITIONAL INFORMATION**Other Information:**

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MSDS glossary.