



B103-016 Acrylic Gloss Water Clear

MATERIAL SAFETY DATA SHEET

RPM Wood Finishes Group
3194 Hickory Boulevard
Hudson, North Carolina 28638
828-728-8266

EMERGENCY PHONE (CHEM TREC): 1-800-424-9300
FOR ALL INTERNATIONAL TRANSPORTATION ACCIDENTS. 1-703-527-3887 (collect)

Health: 2 Flammability: 4 Reactivity 0

PRODUCT NAME: B103-016 Acrylic Gloss Water Clear

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 19/09/03
SUPERCEDES: 15/03/02
MSDS NO. B103-016

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
acetone	31-40	67-64-1	1000 ppm TWA; 2400 mg/m3 TWA
isobutyl acetate	11-20	110-19-0	150 ppm TWA; 700 mg/m3 TWA
propane	11-20	74-98-6	1000 ppm TWA; 1800 mg/m3 TWA
isobutane	1-10	75-28-5	No PEL established
m-xylene	1-10	108-38-3	No PEL established
Acrylic polymer	1-10	PROPRIETARY	No PEL established
polyketone resin	1-10	PROPRIETARY	No PEL established
ethylbenzene	1-10	100-41-4	100 ppm TWA; 435 mg/m3 TWA
o-xylene	1-10	95-47-6	No PEL established
p-xylene	<1	106-42-3	No PEL established
toluene	<1	108-88-3	200 ppm TWA; C 300 ppm
Styrene	<1	100-42-5	100 ppm TWA; C 200 ppm
cobalt compounds (cobalt carboxylate)	<1	7440-48-4	0.1 mg/m3 TWA

III. HAZARDS IDENTIFICATION

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

Immediate (Acute) Health Effects

- Inhalation:** High concentrations may be fatal. Causes respiratory tract irritation. High concentrations in immediate area can displace oxygen and can cause dizziness, unconsciousness, and even death with longer exposure. Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.
- Skin Contact:** Substance causes moderate skin irritation. Moderately irritating to the skin. Can cause minor skin irritation, defatting, and dermatitis.
- Eye Contact:** Can cause irritation. Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue. 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:** Toxic and may be harmful if absorbed through the skin; may produce target organ damage. Can be absorbed through the skin but exposure must be extensive before adverse health effects occur. Minimal hazard in normal industrial use. May cause gastrointestinal discomfort.
- Ingestion:** Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

Target Organ Acute Toxicity:

Acetone	respiratory system, skin, eyes, CNS
Isobutyl acetate	eyes, skin, respiratory system, CNS
Propane	CNS
Isobutane	CNS
m-Xylene	CNS, eyes, blood, liver, kidneys, skin, GI tract, respiratory system
Ethyl benzene	eyes, respiratory system, skin, CNS
o-Xylene	CNS, eyes, blood, liver, kidneys, skin, GI tract, respiratory system
p-Xylene	CNS, eyes, blood, liver, kidneys, skin, GI tract, respiratory system
Toluene	CNS, liver, kidneys, skin, eyes, respiratory system
Styrene	CNS, skin, eyes, respiratory system, liver, reproductive system
Cobalt metal, dust and fume	respiratory system, skin

Long-Term (Chronic) Health Effects:

- Carcinogenicity:** ACGIH. IARC. NIOSH. NTP. OSHA. Contains a substance that is a probable cancer hazard based on human studies.
- Reproductive and Developmental Toxicity:** A component in this product has been shown to cause birth defects and reproductive disorders in laboratory animals at doses that could be encountered in the workplace. Possible reproductive hazard.
- 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 cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

Skin Contact:	Prolonged or repeated contact may cause irritation. Prolonged or repeated contact may produce defatting of the skin leading to irritation and dermatitis. May cause lingering effects but not likely to result in permanent damage if the exposure is eliminated. Continued or prolonged contact may irritate the skin and cause a skin rash (dermatitis). Prolonged contact with this product can cause reddening, swelling, rash, scaling, or blistering. In those who have developed skin sensitization, these symptoms can develop as a result of contact with a very small amount of the liquid material. Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Upon prolonged or repeated contact, can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.
Skin Absorption:	Skin sensitization, characterized by redness, inflammation, itching and/or burning may result from prolonged or repeated contact with this material. Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.
Target Organ Chronic Toxicity:	Respiratory Tract. Skin. Eyes. Nervous System. Digestive Tract. Liver. Kidneys. Blood.
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.
Eyes:	Immediately flush eyes with plenty of water. Get medical attention, if irritation persists. 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:	Wash with mild soap and water. If irritation occurs get medical attention. If clothing is contaminated, remove and wash before reuse. Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	If swallowed, do NOT induce vomiting. Give victim 1-2 glasses of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.
Notes to MD:	No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point: -144 (CALC.) °F

Upper Flammable/Explosive Limit, % in air: 12.8 @ 77° F
Lower Flammable/Explosive Limit, % in air: 1.27 @ 77° F

Fire Hazards: Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. 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 spray, Carbon Dioxide, water spray or dry chemical to extinguish a fire involving this chemical. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Water spray Carbon dioxide 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: Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use methods for the surrounding fire. 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 dioxide, Carbon monoxide

VI. ACCIDENTAL RELEASE MEASURES

Health Consideration for Spill Response: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Spill Mitigation Procedures General Methods: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

VII. HANDLING AND STORAGE

Handling: Use spark-proof tools and explosion-proof equipment. Harmful or irritating material. Avoid contact and avoid breathing the material. Use only in a well ventilated area.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed.

VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls: Ventilation should effectively remove and prevent buildup of any vapor/mist/fume generated from the handling of this product. 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:	CLEAR LIQUID
Odor:	STRONG SOLVENT
Solids Vol %:	10.0868
Solids Wt %:	14.4721
Material VOC lbs/gal:	3.0074
Material VOC gms/l:	361.1637
Coatings VOC lbs/gal:	4.645
Coatings VOC gms/l:	557.8258
Weight per gallon:	6.249

X. STABILITY AND REACTIVITY

Stability Information: Stable. Normally stable. Keep away from heat, sparks and flame.

Conditions to Avoid: Avoid: heat, sparks, flame and oxidizing agents. None known.

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

Hazardous Polymerization: Hazardous Polymerization will not occur.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	CAS Number	LD50/LC50
Acetone	67-64-1	Inhalation LC50 Rat : 50100 mg/m ³ /8H; Inhalation LC50 Mouse : 44 gm/m ³ /4H; Oral LD50 Rat : 5800 mg/kg; Oral LD50 Mouse : 3 gm/kg
Acetic acid, isobutyl ester	110-19-0	Oral LD50 Rat : 13400 mg/kg; Dermal LD50 Rabbit : >17400 mg/kg
Propane, 2-methyl-	75-28-5	Inhalation LC50 Rat : 57 pph/15M
m-Xylene	108-38-3	Oral LD50 Rat : 5 gm/kg; Dermal LD50 Rabbit : 14100 uL/kg
Benzene, ethyl-	100-41-4	Oral LD50 Rat : 3500 mg/kg; Dermal LD50 Rabbit : 17800 uL/kg

p-Xylene	106-42-3	Inhalation LC50 Rat : 4550 ppm/4H; Oral LD50 Rat : 5 gm/kg
Toluene	108-88-3	Inhalation LC50 Rat : 49 gm/m3/4H; Inhalation LC50 Mouse : 400 ppm/24H; Oral LD50 Rat : 636 mg/kg; Dermal LD50 Rabbit : 14100 uL/kg
Styrene	100-42-5	Inhalation LC50 Rat : 12 gm/m3/4H; Inhalation LC50 Mouse : 9500 mg/m3/4H; Oral LD50 Rat : 2650 mg/kg; Oral LD50 Mouse : 316 mg/kg
Cobalt	7440-48-4	Oral LD50 Rat : 6171 mg/kg

XII. ECOLOGICAL INFORMATION

Overview (for ingredients): Keep out of waterways. No ecological information available.

XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product: The waste may be a listed and/or characteristic hazardous waste. Spent or discarded material is a hazardous waste.

Disposal Methods: Comply with all Local, State, Federal, and Provincial Environmental Regulations. Dispose of by incineration following Federal, State, Local, or Provincial regulations.

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

Components Subject to USEPA Land Disposal Restrictions:

Acetone	67-64-1	37.29 %
Ethyl benzene	100-41-4	2.46 %
Toluene	108-88-3	0.5 %

XIV. TRANSPORTATION INFORMATION

DOT Compressed gas, flammable, n.o.s., 2.1, UN 1954 (contains)

XV. REGULATORY INFORMATION

Chemical Name	Regulation	CASRN	%
m-Xylene	SARA 313 Reportable:	108-38-3	3.24
Ethyl benzene	SARA 313 Reportable:	100-41-4	2.46
o-Xylene	SARA 313 Reportable:	95-47-6	1.33
p-Xylene	SARA 313 Reportable:	106-42-3	0.83
Toluene	SARA 313 Reportable:	108-88-3	0.5
Styrene	SARA 313 Reportable:	100-42-5	0.02
Cobalt	SARA 313 Reportable:	7440-48-4	0.01
Cobalt metal powder	California Proposition 65 Cancer List:	7440-48-4	0.01
Toluene	California Proposition 65 Developmental Toxicity:	108-88-3	0.5
acetone	New Jersey Right To Know:	67-64-1	37.29
isobutyl acetate	New Jersey Right To Know:	110-19-0	16.57
propane	New Jersey Right To Know:	74-98-6	15.97
isobutane	New Jersey Right To Know:	75-28-5	7.23
m-xylene	New Jersey Right To Know:	108-38-3	3.24

XVI. ADDITIONAL INFORMATION

Other Information:

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MSDS glossary.