



M102-0428 WATER CLEAR ACRYLIC FLAT

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: 4 Reactivity 0

PRODUCT NAME: M102-0428 WATER CLEAR ACRYLIC FLAT

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 01/06/06
SUPERCEDES: 29/06/04
MSDS NO. M102-0428

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
diisononyl phthalate	1-10	68515-48-0	No PEL established
isobutyl isobutyrate	1-10	97-85-8	No PEL established
o-xylene	1-10	95-47-6	No PEL established
amorphous silica	1-10	112926-00-8	see Table Z-3
isopropanol	1-10	67-63-0	400 ppm TWA; 980 mg/m3 TWA
p-xylene	<1	106-42-3	No PEL established
toluene	<1	108-88-3	200 ppm TWA; C 300 ppm
butanol	<1	78-92-2	150 ppm TWA; 450 mg/m3 TWA
Methanol	<1	67-56-1	200 ppm TWA; 260 mg/m3 TWA
Styrene	<1	100-42-5	100 ppm TWA; C 200 ppm

III. HAZARDS IDENTIFICATION

Routes of Entry: Inhalation, ingestion, skin, eyes., Absorption.
Medical Conditions Aggravated: Skin disease including eczema and sensitization. Eye disease. Digestive tract disease. Liver disease. Kidney disease. Pre-existing skin or respiratory conditions.

Immediate (Acute) Health Effects

Inhalation:	Irritation may be delayed for several hours. 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. Continued or prolonged contact may irritate the skin and cause a skin rash (dermatitis). 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. Contains methanol. Upon prolonged or repeated exposure, may cause deterioration of the optic nerve if large quantities are absorbed through the skin. Repeated absorption of large quantities may lead to blindness. 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. Minimal toxicity 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
Isopropyl alcohol	eyes, skin, respiratory system
p-Xylene	CNS, eyes, blood, liver, kidneys, skin, GI tract, respiratory system
Toluene	CNS, liver, kidneys, skin, eyes, respiratory system
n-Butyl alcohol	eyes, CNS, skin, respiratory system
Methyl alcohol	skin, eyes, CNS, GI tract, respiratory system
Styrene	CNS, skin, eyes, respiratory system, liver, reproductive system

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). 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:	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:	Flush immediately under running water for 15 minutes. If redness or irritation occurs, seek medical attention. 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. For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. No attempt should be made to remove material from skin or to remove contaminated clothing as the damaged flesh can be easily torn. Wash with soap and water under a drench shower. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.
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. DO NOT induce vomiting. Get immediate medical attention. 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:	Treat as thermal burns. No need to remove from skin as it will come off as healing occurs.

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 Toxic gases

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. Ground and bond containers when transferring material. Wash thoroughly after handling. Avoid contact with material. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Remove contaminated clothing and wash before reuse. Use bonding and grounding when transferring quantities of material. 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. Keep container closed when not in use. Do not store in direct sunlight. 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. Explosion proof exhaust ventilation should be used. 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:	STRONG SOLVENT
Solids Vol %:	11.7193
Solids Wt %:	17.0377
Material VOC lbs/gal:	3.1392
Material VOC gms/l:	376.9884
Coatings VOC lbs/gal:	4.6496
Coatings VOC gms/l:	558.3809
Weight per gallon lbs:	6.3808

VOC data per US EPA guidelines. State and local variations may apply.

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. Oxidizing materials. Acids. Acetic anhydride. Peroxides.

Hazardous Polymerization: Hazardous Polymerization will not occur.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	CAS Number	LD50/LC50
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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
Isobutyric acid, isobutyl ester	97-85-8	Inhalation LC50 Rat : 5000 ppm/6H; Oral LD50 Rat : 12800 mg/kg; Dermal LD50 Rabbit : >8600 mg/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
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/m ³ /4H; Inhalation LC50 Mouse : 400 ppm/24H; Oral LD50 Rat : 636 mg/kg; Dermal LD50 Rabbit : 14100 uL/kg
sec-Butyl alcohol	78-92-2	Inhalation LC50 Rat : 8000 ppm/4H; Oral LD50 Rat : 790 mg/kg; Oral LD50 Mouse : 2680 mg/kg; Dermal LD50 Rabbit : 3400 mg/kg
Methanol	67-56-1	Inhalation LC50 Rat : 64000 ppm/4H; Oral LD50 Rat : 5628 mg/kg; Oral LD50 Mouse : 7300 mg/kg; Dermal LD50 Rabbit : 15800 mg/kg
Styrene	100-42-5	Inhalation LC50 Rat : 12 gm/m ³ /4H; Inhalation LC50 Mouse : 9500 mg/m ³ /4H; Oral LD50 Rat : 2650 mg/kg; Oral LD50 Mouse : 316 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	33.65 %
Ethyl benzene	100-41-4	2.32 %
Toluene	108-88-3	0.46 %
n-Butyl alcohol	78-92-2	0.45 %
Methanol	67-56-1	0.33 %

XIV. TRANSPORTATION INFORMATION

DOT AEROSOLS, FLAMMABLE, 2.1, UN 1950
See 49CFR 172.101 for Special Provisions, Packaging, and Quantity Limitations.

XV. REGULATORY INFORMATION

Chemical Name	Regulation	CASRN	%
m-Xylene	SARA 313 Reportable:	108-38-3	3.05
Ethyl benzene	SARA 313 Reportable:	100-41-4	2.32
o-Xylene	SARA 313 Reportable:	95-47-6	1.26
Isopropyl alcohol	SARA 313 Reportable:	67-63-0	1.02
p-Xylene	SARA 313 Reportable:	106-42-3	0.78
Toluene	SARA 313 Reportable:	108-88-3	0.46
sec-Butyl alcohol	SARA 313 Reportable:	78-92-2	0.45
Methanol	SARA 313 Reportable:	67-56-1	0.33
Styrene	SARA 313 Reportable:	100-42-5	0.01
Benzene	SARA 313 Reportable:	71-43-2	0.00
Benzene, ethyl-	California Proposition 65 Cancer List:	100-41-4	2.32
Benzene, methyl-	California Proposition 65 Cancer List:	108-88-3	0.46

Benzene	California Proposition 65 Cancer List:	71-43-2	0.00
Toluene	California Proposition 65 Developmental Toxicity:	108-88-3	0.46
Benzene	California Proposition 65 Developmental Toxicity:	71-43-2	0.00
Benzene	California Proposition 65 Reproductive - Female:	71-43-2	0.00
acetone	New Jersey Right To Know:	67-64-1	33.65
isobutyl acetate	New Jersey Right To Know:	110-19-0	15.99
propane	New Jersey Right To Know:	74-98-6	14.65
Acrylic Resin	New Jersey Right To Know:	PROPRIETARY	7.47
isobutane	New Jersey Right To Know:	75-28-5	6.64
m-xylene	New Jersey Right To Know:	108-38-3	3.05

XVI. ADDITIONAL INFORMATION

Other Information:

IMPORTANT: WHILE THE DESCRIPTIONS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU PERFORM AN ASSESSMENT TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED, DATA OR INFORMATION SET FORTH. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, OR DATA PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, THE DESCRIPTIONS, DATA AND INFORMATION FURNISHED HEREUNDER ARE GIVEN GRATIS. NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DATA AND INFORMATION GIVEN ARE ASSUMED. ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

MSDS glossary.