



M651-00017 Special Mix Lacquer Thinner

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: 3 Reactivity 0

PRODUCT NAME: M651-00017 Special Mix Lacquer Thinner

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 13/10/05
SUPERCEDES: None
MSDS NO. M651-00017

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
toluene	41-50	108-88-3	200 ppm TWA; C 300 ppm
Methyl Ethyl Ketone	11-20	78-93-3	200 ppm TWA; 590 mg/m3 TWA
isobutyl acetate	11-20	110-19-0	150 ppm TWA; 700 mg/m3 TWA
isopropanol	11-20	67-63-0	400 ppm TWA; 980 mg/m3 TWA
butyl cellosolve	1-10	111-76-2	50 ppm TWA; 240 mg/m3 TWA

III. HAZARDS IDENTIFICATION

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

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: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Eye Contact: Irritating and may injure eye tissue if not removed promptly. 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: Can be absorbed through the skin but exposure must be extensive before adverse health effects occur. Substance can be absorbed through the skin in harmful amounts. Harmful if absorbed through the skin. Harmful if absorbed through the skin. May cause severe irritation and systemic damage. No absorption hazard in normal industrial use.

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:

Toluene	CNS, liver, kidneys, skin, eyes, respiratory system
2-Butanone	CNS, eyes, skin, respiratory system
Isobutyl acetate	eyes, skin, respiratory system, CNS
Isopropyl alcohol	eyes, skin, respiratory system
2-Butoxyethanol	liver, kidneys, lymphoid system, skin, blood, eyes, respiratory system, CNS, hemato system

Long-Term (Chronic) Health Effects:

Carcinogenicity: Contains a substance that is a probable cancer hazard based on human studies.

Reproductive and Developmental Toxicity: 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. 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 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: Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.

Target Organ Chronic Toxicity: Nervous System. Kidneys. Liver. Eyes. Skin. Respiratory Tract.

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 eye with water for 20 minutes. Get medical attention. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel. 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 soap and water. Get medical attention if irritation develops or persists. Wash with soap and water. Get medical attention if irritation develops or persists.

Ingestion: 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. If swallowed, have a trained medical professional induce vomiting immediately. Never give anything by mouth to an unconscious person.

Notes to MD: No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point: 24 (CALC.) °F
Upper Flammable/Explosive Limit, % in air: 11.5 @ 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. If product is heated above its flash point it will release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to ignition source. Combustible Liquid. Can form explosive mixtures at temperatures at or above the flash point. Use process enclosures to control the level of dust in the air. 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: Alcohol foam Dry chemical 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 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 sources of ignition. Keep away from heat, sparks, and flame. Store away from sources of heat and light. Keep container closed when not in use. Keep away from heat and flame. 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: Check ventilation codes. 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 %: 0.0000
Solids Wt %: 0.0000

Material VOC lbs/gal:	7.041
Material VOC gms/l:	845.5567
Coatings VOC lbs/gal:	7.041
Coatings VOC gms/l:	845.5567
Weight per gallon lbs:	7.057

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

X. STABILITY AND REACTIVITY

Stability Information:	Stable. Stable under normal conditions.
Conditions to Avoid:	Avoid: heat, sparks, flame and oxidizing agents. None known.
Chemical Incompatibility:	Strong oxidizing agents. Peroxides.
Hazardous Polymerization:	Hazardous Polymerization will not occur.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	CAS Number	LD50/LC50
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
2-Butanone	78-93-3	Inhalation LC50 Rat : 23500 mg/m3/8H; Inhalation LC50 Mouse : 32 gm/m3/4H; Oral LD50 Rat : 2737 mg/kg; Oral LD50 Mouse : 4050 mg/kg; Dermal LD50 Rabbit : 6480 mg/kg
Acetic acid, isobutyl ester Isopropyl alcohol	110-19-0 67-63-0	Oral LD50 Rat : 13400 mg/kg; Dermal LD50 Rabbit : >17400 mg/kg Inhalation LC50 Rat : 16000 ppm/8H; Oral LD50 Rat : 5045 mg/kg; Oral LD50 Mouse : 3600 mg/kg; Dermal LD50 Rabbit : 12800 mg/kg
Ethanol, 2-butoxy-	111-76-2	Inhalation LC50 Rat : 450 ppm/4H; Inhalation LC50 Mouse : 700 ppm/7H; Oral LD50 Rat : 470 mg/kg; Oral LD50 Mouse : 1230 mg/kg; Dermal LD50 Rabbit : 220 mg/kg

XII. ECOLOGICAL INFORMATION

Overview (for ingredients):	No data available. No ecological information available.
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XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product:	The waste may be a "special" 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:

Toluene	108-88-3	45.00 %
Methyl ethyl ketone	78-93-3	20.00 %

XIV. TRANSPORTATION INFORMATION

DOT	Paint related material, 3, UN 1263, II See 49CFR 172.101 for Special Provisions, Packaging, and Quantity Limitations.
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XV. REGULATORY INFORMATION

Chemical Name	Regulation	CASRN	%
Toluene	SARA 313 Reportable:	108-88-3	45.00

Methyl ethyl ketone	SARA 313 Reportable:	78-93-3	20.00
Isopropyl alcohol	SARA 313 Reportable:	67-63-0	15.00
2-Butoxyethanol	SARA 313 Reportable:	111-76-2	5.00
Benzene, methyl-	California Proposition 65 Cancer List:	108-88-3	45.00
Toluene	California Proposition 65 Developmental Toxicity:	108-88-3	45.00
toluene	New Jersey Right To Know:	108-88-3	45.00
Methyl Ethyl Ketone	New Jersey Right To Know:	78-93-3	20.00
isobutyl acetate	New Jersey Right To Know:	110-19-0	15.00
isopropanol	New Jersey Right To Know:	67-63-0	15.00
butyl cellosolve	New Jersey Right To Know:	111-76-2	5.00

XVI. ADDITIONAL INFORMATION

Other Information:

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MSDS glossary.