



B611-0001 Qualsole

# MATERIAL SAFETY DATA SHEET

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

**Health: 2                      Flammability: 3                      Reactivity 0**

**PRODUCT NAME: B611-0001 Qualsole**

## I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 14/08/01  
SUPERCEDES: None  
MSDS NO. B611-0001

## II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
Ethanol	51-60	64-17-5	1000 ppm TWA; 1900 mg/m3 TWA
Ethyl Acetate	21-30	141-78-6	400 ppm TWA; 1400 mg/m3 TWA
isopropanol	1-10	67-63-0	400 ppm TWA; 980 mg/m3 TWA
n-Propyl Acetate, Propyl Ester, Propyl Acetate	1-10	109-60-4	200 ppm TWA; 840 mg/m3 TWA
Methanol	1-10	67-56-1	200 ppm TWA; 260 mg/m3 TWA
Linseed Oil, Acid Refined	1-10	8001-26-1	No PEL established
Nitrocellulose	1-10	9004-70-0	No PEL established
Isobutyl Alcohol	1-10	78-83-1	100 ppm TWA; 300 mg/m3 TWA
1,2 Benzenedicarboxylic acid, di C8-10 br alkyl ester	1-10	68515-48-0	No PEL established

## III. HAZARDS IDENTIFICATION

**Routes of Entry:** Absorption., Inhalation, ingestion, skin, eyes.  
**Medical Conditions Aggravated:** Eye disease. Liver disease. Skin disease including eczema and sensitization. Respiratory disease including asthma and bronchitis. Digestive tract disease.

### Immediate (Acute) Health Effects

**Inhalation**  
**Extreme Warning:** Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.  
**General Warning:** Irritation may be delayed for several hours.  
**Extreme Toxic Warning:** Harmful! Can cause systemic damage (see "Target Organs).

<b>General Toxic Warning:</b>	Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness. No data. Inhalation may cause severe central nervous system depression (including unconsciousness).
<b>Skin Contact</b>	
<b>Extreme Warning:</b>	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
<b>General Warning:</b>	Substance causes moderate skin irritation. Continued or prolonged contact may irritate the skin and cause a skin rash (dermatitis).
<b>Eye Contact</b>	
<b>Extreme Warning:</b>	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.
<b>General Warning:</b>	Irritating but will not permanently injure eye tissue.
<b>Skin Absorption</b>	
<b>Extreme Warning:</b>	Harmful if absorbed through the skin. May cause severe irritation and systemic damage.
<b>General Warning:</b>	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. No component(s) in this product is known to be absorbed through the skin. Component(s) may be absorbed through intact skin, but it is unlikely that harmful effects will occur unless contact is prolonged, repeated, and extensive.
<b>Ingestion</b>	
<b>Extreme Warning:</b>	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.
<b>General Warning:</b>	Harmful if swallowed. Small amounts (a tablespoonful) swallowed during normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.
<b>Extreme Toxic Warning:</b>	Toxic if swallowed. May cause target organ failure and/or death.
<b>General Toxic Warning:</b>	Upon ingestion of a large quantity of this material, visual disturbances may occur. Onset of the response may be delayed. No hazard in normal industrial use. Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision.
<b>Target Organ Acute Toxicity:</b>	
Ethyl alcohol	respiratory system, skin, eyes, CNS, liver, blood, reproductive system
Ethylacetate	eyes, skin, respiratory system
Isopropyl alcohol	eyes, skin, respiratory system
n-Propyl acetate	skin, eyes, CNS, respiratory system
Methyl alcohol	skin, eyes, CNS, GI tract, respiratory system
Isobutyl alcohol	eyes, skin, respiratory system, CNS
<b><u>Long-Term (Chronic) Health Effects:</u></b>	
<b>Carcinogenicity</b>	
<b>Extreme Warning:</b>	No data.
<b>General Warning:</b>	Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.
<b>Reproductive and Developmental Toxicity</b>	
<b>Extreme Warning:</b>	No data.
<b>General Warning:</b>	No information available.
<b>Mutagenicity:</b>	No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
<b>Inhalation</b>	
<b>Extreme Warning:</b>	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

<b>General Warning:</b>	No data.
<b>Skin Contact</b>	
<b>Extreme Warning:</b>	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
<b>General Warning:</b>	No data.
<b>Eye Contact</b>	
<b>Extreme Warning:</b>	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.
<b>General Warning:</b>	No data.
<b>Skin Absorption</b>	
<b>Extreme Warning:</b>	Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.
<b>General Warning:</b>	Skin sensitization, characterized by redness, inflammation, itching and/or burning may result from prolonged or repeated contact with this material.
<b>Target Organ Chronic Toxicity Supplemental Health Hazard Information:</b>	Eyes. Blood. Liver. Skin. Nervous System. Respiratory Tract. Skin. Digestive Tract. No additional health information available.

#### **IV. FIRST AID**

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<b>Inhalation</b>	
<b>Extreme Warning:</b>	Remove to fresh air. Get medical attention immediately. Have a trained individual administer humidified oxygen. If not breathing, give artificial respiration.
<b>General Warning:</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
<b>Eyes</b>	
<b>Extreme Warning:</b>	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.
<b>General Warning:</b>	Flush eye with water for 20 minutes. Get medical attention. Flush immediately under running water for 15 minutes. If redness or irritation occurs, seek medical attention.
<b>Skin Contact</b>	
<b>Extreme Warning:</b>	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
<b>General Warning:</b>	Wash with soap and water. Get medical attention if irritation develops or persists.
<b>Ingestion</b>	
<b>Extreme Warning:</b>	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.
<b>General Warning:</b>	First aid is normally not required.
<b>Notes to MD:</b>	No additional first aid information available.

#### **V. FIRE FIGHTING MEASURES**

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##### **Flammability Summary:**

<b>Flash Point:</b>	-4C; 25F
<b>Autoignition Temperature:</b>	427 deg. C
<b>Upper Flammable/Explosive Limit, % in air:</b>	10.7 @ 77° F
<b>Lower Flammable/Explosive Limit, % in air:</b>	2.0 @ 77° F

##### **Fire Hazards**

<b>Extreme Warning:</b>	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.
<b>General Warning:</b>	Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death. Container may explode in heat of fire.
<b>Extinguishing Media</b>	
<b>Extreme Warning:</b>	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.
<b>General Warning:</b>	H <sub>2</sub> O, CO <sub>2</sub> , dry chemical, foam. Carbon dioxide Flammable component(s) of this material may be lighter than water and burn while floating on the surface.
<b>Fire Fighting Instructions</b>	
<b>Extreme Warning:</b>	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.
<b>General Warning:</b>	Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death. Container may explode in heat of fire.
<b>Hazardous Combustion Products:</b>	Carbon monoxide Hydrogen cyanide Nitrogen containing gases Toxic gases

## VI. ACCIDENTAL RELEASE MEASURES

### Health Consideration for Spill Response

<b>Extreme Warning:</b>	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.
<b>General Warning:</b>	No data.

### Spill Mitigation Procedures

#### General Methods:

<b>Extreme Warning:</b>	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.
<b>General Warning:</b>	Avoid runoff into storm sewers and ditches that lead to waterways.

## VII. HANDLING AND STORAGE

### Handling

<b>Extreme Warning:</b>	Harmful or irritating material. Avoid contact and avoid breathing the material. Use only in a well ventilated area.
<b>General Warning:</b>	Spontaneous combustion can occur. Use spark-proof tools and explosion-proof equipment.

### Storage

**Extreme Warning:** Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed.

**General Warning:** Do not store near combustible materials. Keep away from sources of ignition. Keep container closed when not in use. Keep away from heat, sparks, and flame. Store in a cool place in original container and protect from sunlight. Do not store in direct sunlight.

## **VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT**

### **Engineering Controls**

**Extreme Warning:** Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

**General Warning:** Facilities storing or using this material should be equipped with an eyewash and safety shower. Explosion proof exhaust ventilation should be used. Local exhaust.

### **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 %	8.9446
Solids Wt %	12.5739
Material VOC lbs/gal:	6.1976
Material VOC gms/l:	744.2836
Weight per gallon:	7.1052

## **X. STABILITY AND REACTIVITY**

### **Stability Information**

**Extreme Warning:** Stable under normal conditions.

**General Warning:** Spontaneous combustion can occur. Stable.

### **Conditions to Avoid**

**Extreme Warning:** Sparks, open flame, other ignition sources, and elevated temperatures.

**General Warning:** Avoid: heat, sparks, flame and oxidizing agents.

**Chemical Incompatibility:** Strong oxidizing agents. Strong alkalies. Strong acids. Nitrogen oxides. Oxidizing materials. Amines.

**Hazardous Polymerization:** Hazardous Polymerization will not occur.

## XI. TOXICOLOGICAL INFORMATION

<b>Chemical Name</b>	<b>CAS Number</b>	<b>LD50/LC50</b>
Ethyl alcohol	64-17-5	Inhalation LC50 Rat : 20000 ppm/10H; Inhalation LC50 Mouse : 39 gm/m <sup>3</sup> /4H; Oral LD50 Rat : 7060 mg/kg; Oral LD50 Mouse : 3450 mg/kg
Acetic acid, ethyl ester	141-78-6	Inhalation LC50 Rat : 200 gm/m <sup>3</sup> ; Inhalation LC50 Mouse : 45 gm/m <sup>3</sup> /2H; Oral LD50 Rat : 5620 mg/kg; Oral LD50 Mouse : 4100 mg/kg; Dermal LD50 Rabbit : >20 mL/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
Acetic acid, propyl ester	109-60-4	Oral LD50 Rat : 9370 mg/kg; Oral LD50 Mouse : 8300 mg/kg; Dermal LD50 Rabbit : >20 mL/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
Nitrocellulose	9004-70-0	Oral LD50 Rat : >5 gm/kg; Oral LD50 Mouse : >5 gm/kg
Isobutyl alcohol	78-83-1	Oral LD50 Rat : 2460 mg/kg; Dermal LD50 Rabbit : 3400 mg/kg

## XII. ECOLOGICAL INFORMATION

**Overview (for ingredients):** No data available.

**Ecological Toxicity Values:**

## XIII. DISPOSAL CONSIDERATIONS

**Waste Description for Spent Product:**

**Extreme Warning:** Spent or discarded material is a hazardous waste.

**General Warning:** The waste may be a listed hazardous waste.

**Disposal Methods:**

**Extreme Warning:** 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:**

Ethylacetate	141-78-6	22.63 %
Methanol	67-56-1	2.49 %
Isobutyl alcohol	78-83-1	1.21 %

## XIV. TRANSPORTATION INFORMATION

**DOT** UN1263 PGII

## XV. REGULATORY INFORMATION

Toxic Substances Control Act (TSCA):

<b>Chemical Name</b>	<b>Regulation</b>	<b>CASRN</b>	<b>%</b>
Isopropyl alcohol	SARA 313 Reportable:	67-63-0	3.27
Methanol	SARA 313 Reportable:	67-56-1	2.49
Naphthalene	SARA 313 Reportable:	91-20-3	0.00
Manganese	SARA 313 Reportable:	7439-96-5	0.00
Cobalt	SARA 313 Reportable:	7440-48-4	0.00
Cobalt metal powder	California Proposition 65 Cancer List:	7440-48-4	0.00
Ethyl alcohol	California Proposition 65 Developmental Toxicity:	64-17-5	53.87
Ethanol	New Jersey Right To Know:	64-17-5	53.87
Ethyl Acetate	New Jersey Right To Know:	141-78-6	22.63
Natural Resin	New Jersey Right To Know:		8.24
isopropanol	New Jersey Right To Know:	67-63-0	3.27
n-Propyl acetate	New Jersey Right To Know:	109-60-4	2.98

## **XVI. ADDITIONAL INFORMATION**

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### **Other Information:**

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MSDS glossary.