



M102-0867 BURN IN SEALER

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: M102-0867 BURN IN SEALER

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 01/05/03
SUPERCEDES: None
MSDS NO. M102-0867

II. COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME | % | CAS # | PEL |
|----------------------------|-------|------------|------------------------------|
| ethyl acetate | 31-40 | 141-78-6 | 400 ppm TWA; 1400 mg/m3 TWA |
| n-butyl acetate | 11-20 | 123-86-4 | 150 ppm TWA; 710 mg/m3 TWA |
| propane | 11-20 | 74-98-6 | 1000 ppm TWA; 1800 mg/m3 TWA |
| PM acetate | 11-20 | 108-65-6 | No PEL established |
| toluene | 1-10 | 108-88-3 | 200 ppm TWA; C 300 ppm |
| isobutane | 1-10 | 75-28-5 | No PEL established |
| Magnesium Silicate Hydrate | 1-10 | 14807-96-6 | see Table Z-3 |
| Quartz | <1 | 14808-60-7 | see Table Z-3 |

III. HAZARDS IDENTIFICATION

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

Immediate (Acute) Health Effects

Inhalation: High concentrations may be fatal. High concentrations in immediate area can displace oxygen and can cause dizziness, unconsciousness, and even death with longer exposure. Can cause mechanical irritation if dusts are generated. Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material. Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

Skin Contact: Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold" burn). Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage. No hazard in normal industrial use.

Eye Contact: Can cause mechanical irritation if dusts are generated. 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. No hazard in normal industrial use.

Skin Absorption: Can be absorbed through the skin but exposure must be extensive before adverse health effects occur. No absorption hazard in normal industrial use. Harmful if absorbed through the skin. May cause severe irritation and systemic damage.

Ingestion: Harmful if swallowed. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. No hazard in normal industrial use. Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

Target Organ Acute Toxicity:

| | |
|-------------------------------------------------------|-----------------------------------------------------|
| Ethylacetate | eyes, skin, respiratory system |
| n-Butyl acetate | eyes, skin, respiratory system, CNS |
| Propane | CNS |
| Toluene | CNS, liver, kidneys, skin, eyes, respiratory system |
| Isobutane | CNS |
| Talc (containing no asbestos and less than 1% quartz) | CVS, eyes, respiratory system |
| Silica, crystalline | respiratory system, eyes (in animals: lung cancer) |

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. No data.

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. 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, dust contact can cause mechanical irritation. 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: 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: Nervous System. Respiratory Tract. Skin. Skin. Eyes. Kidneys. Liver.

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 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: 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: 13.1 @ 77° F
Lower Flammable/Explosive Limit, % in air: 1.3 @ 77° F

Fire Hazards: 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. 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: H₂O, CO₂, dry chemical, foam. Carbon dioxide Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Alcohol foam Dry chemical 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. 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. Wash thoroughly after handling. Avoid contact with material. Ground and bond containers when transferring material. Keep in air-tight containers- material is hygroscopic. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. 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. Keep container closed when not in use. 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: 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 %: 5.5179
Solids Wt %: 9.7681
Material VOC lbs/gal: 6.0575
Material VOC gms/l: 727.4539
Coatings VOC lbs/gal: 6.0575
Coatings VOC gms/l: 727.4539
Weight per gallon: 6.7286

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. Strong alkalies. Strong acids. Metals.

XI. TOXICOLOGICAL INFORMATION

| Chemical Name | CAS Number | LD50/LC50 |
|--------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acetic acid, ethyl ester | 141-78-6 | Inhalation LC50 Rat : 200 gm/m3; Inhalation LC50 Mouse : 45 gm/m3/2H; Oral LD50 Rat : 5620 mg/kg; Oral LD50 Mouse : 4100 mg/kg; Dermal LD50 Rabbit : >20 mL/kg |
| Acetic acid, butyl ester | 123-86-4 | Inhalation LC50 Rat : 2000 ppm/4H; Inhalation LC50 Mouse : 6 gm/m3/2H; Oral LD50 Rat : 10768 mg/kg; Oral LD50 Mouse : 6 gm/kg; Dermal LD50 Rabbit : >17600 mg/kg |
| Acetic acid, 2-methoxy-1-methylethyl ester | 108-65-6 | Oral LD50 Rat : 8532 mg/kg; Dermal LD50 Rabbit : >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 |
| Propane, 2-methyl- | 75-28-5 | Inhalation LC50 Rat : 57 pph/15M |

XII. ECOLOGICAL INFORMATION

Overview (for ingredients): No data available. Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product: The waste may be a listed hazardous waste. 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:

| | | |
|--------------|----------|---------|
| Ethylacetate | 141-78-6 | 32.44 % |
| Toluene | 108-88-3 | 8.17 % |

XIV. TRANSPORTATION INFORMATION

DOT COMPRESSED GAS, FLAMMABLE, N.O.S., 2.1, UN 1954 (CONTAINS)

XV. REGULATORY INFORMATION

| Chemical Name | Regulation | CASRN | % |
|----------------------|---------------------------|--------------|----------|
| Toluene | SARA 313 Reportable: | 108-88-3 | 8.17 |
| Toluene | California Proposition 65 | 108-88-3 | 8.17 |
| | Developmental Toxicity: | | |
| ethyl acetate | New Jersey Right To Know: | 141-78-6 | 32.44 |
| n-butyl acetate | New Jersey Right To Know: | 123-86-4 | 16.12 |
| propane | New Jersey Right To Know: | 74-98-6 | 14.73 |
| PM acetate | New Jersey Right To Know: | 108-65-6 | 12.08 |
| toluene | New Jersey Right To Know: | 108-88-3 | 8.17 |

XVI. ADDITIONAL INFORMATION**Other Information:**

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MSDS glossary.