



M104-0224 HC BLACK PRIMER

# MATERIAL SAFETY DATA SHEET

RPM Wood Finishes Group  
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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: M104-0224 HC BLACK PRIMER

## I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 08/11/04  
SUPERCEDES: 29/09/04  
MSDS NO. M104-0224  
OSHA HAZ. CLASS: Eye irritant. Neurotoxin - may cause nervous system damage.  
Mucous membrane (respiratory tract) irritant. Hepatotoxin - may cause liver damage.

## II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
acetone	31-40	67-64-1	1000 ppm TWA; 2400 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
isobutane	1-10	75-28-5	No PEL established
toluene	1-10	108-88-3	200 ppm TWA; C 300 ppm
ethanol	1-10	64-17-5	1000 ppm TWA; 1900 mg/m3 TWA
isopropyl acetate	1-10	108-21-4	250 ppm TWA; 950 mg/m3 TWA
aliphatic petroleum distillates	1-10	64742-89-8	No PEL established
Cellulose Nitrate, Cellulose Ester	1-10	9004-70-0	No PEL established
rosin ester	1-10	8050-31-5	No PEL established
isopropanol	1-10	67-63-0	400 ppm TWA; 980 mg/m3 TWA
zinc stearate	1-10	557-05-1	total dust: 15 mg/m3 TWA; respirable fraction: 5 mg/m3 TWA
carbon black	<1	1333-86-4	3.5 mg/m3 TWA

## III. HAZARDS IDENTIFICATION

**Routes of Entry:** Skin contact., Eye contact., Inhalation, Ingestion, Skin Absorbtion.  
**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:** 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. 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:** Can be absorbed through the skin but exposure must be extensive before adverse health effects occur. A single exposure is not likely to result in the product being absorbed through the skin in harmful amounts. No absorption hazard in normal industrial use.
- Ingestion:** Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Harmful if swallowed. Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

### **Target Organ Acute Toxicity:**

Acetone	respiratory system, skin, eyes, CNS
n-Butyl acetate	eyes, skin, respiratory system, CNS
Propane	CNS
Isobutane	CNS
Toluene	CNS, liver, kidneys, skin, eyes, respiratory system
Ethyl alcohol	respiratory system, skin, eyes, CNS, liver, blood, reproductive system
Isopropyl acetate	eyes, skin, respiratory system, CNS
Isopropyl alcohol	eyes, skin, respiratory system
Zinc stearate	eyes, skin, respiratory system
Carbon black	respiratory system, eyes, lymphatic cancer

### **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:** 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. 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.

<b>Skin Absorption:</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. Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.
<b>Target Organ Chronic Toxicity:</b>	Respiratory Tract. Skin. Respiratory Tract. Nervous System. Eyes. Nervous System. Kidneys. Liver. Eyes. Skin. Blood. Liver.
<b>Supplemental Health Hazard Information:</b>	No additional health information available.

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

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<b>Inhalation:</b>	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.
<b>Eyes:</b>	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.
<b>Skin Contact:</b>	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.
<b>Ingestion:</b>	Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal. Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this MSDS.
<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>	-144 (CALC.) °F
<b>Upper Flammable/Explosive Limit, % in air:</b>	12.8 @ 77° F
<b>Lower Flammable/Explosive Limit, % in air:</b>	1.4 @ 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. Alcohol 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. 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 Hydrogen cyanide Nitrogen containing 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. Wash thoroughly after handling. Avoid contact with material. Ground and bond containers when transferring material. Keep in air-tight containers- material is hygroscopic. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Remove contaminated clothing and wash before reuse. 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. Do not store near combustible materials. Store in a cool place in original container and protect from 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. Facilities storing or using this material should be equipped with an eyewash and safety shower. 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

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<b>Physical State:</b>	COLORED LIQUID
<b>Odor:</b>	STRONG SOLVENT
<b>Solids Vol %:</b>	4.792
<b>Solids Wt %:</b>	7.8755
<b>Material VOC lbs/gal:</b>	3.6879
<b>Material VOC gms/l:</b>	442.8832
<b>Coatings VOC lbs/gal:</b>	5.3465
<b>Coatings VOC gms/l:</b>	642.0624
<b>Weight per gallon:</b>	6.2381

## X. STABILITY AND REACTIVITY

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**Stability Information:** Stable. Normally stable. Keep away from heat, sparks and flame. Stable under normal conditions.

**Conditions to Avoid:** Avoid: heat, sparks, flame and oxidizing agents. Contact with oxidizing materials. High temperatures. None known.

**Chemical Incompatibility:** Strong oxidizing agents. Strong acids. Strong alkalies. Amines.

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

## XI. TOXICOLOGICAL INFORMATION

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Chemical Name	CAS Number	LD50/LC50
Acetone	67-64-1	Inhalation LC50 Rat : 50100 mg/m <sup>3</sup> /8H; Inhalation LC50 Mouse : 44 gm/m <sup>3</sup> /4H; Oral LD50 Rat : 5800 mg/kg; Oral LD50 Mouse : 3 gm/kg
Acetic acid, butyl ester	123-86-4	Inhalation LC50 Rat : 2000 ppm/4H; Inhalation LC50 Mouse : 6 gm/m <sup>3</sup> /2H; Oral LD50 Rat : 10768 mg/kg; Oral LD50 Mouse : 6 gm/kg; Dermal LD50 Rabbit : >17600 mg/kg
Propane, 2-methyl-Toluene	75-28-5 108-88-3	Inhalation LC50 Rat : 57 pph/15M Inhalation LC50 Rat : 49 gm/m <sup>3</sup> /4H; Inhalation LC50 Mouse : 400 ppm/24H; Oral LD50 Rat : 636 mg/kg; Dermal LD50 Rabbit : 14100 uL/kg
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, isopropyl ester	108-21-4	Inhalation LC50 Rat : 50600 mg/m <sup>3</sup> /8H; Oral LD50 Rat : 6750 mg/kg; Dermal LD50 Rabbit : >20 mL/kg
Nitrocellulose	9004-70-0	Oral LD50 Rat : >5 gm/kg; Oral LD50 Mouse : >5 gm/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
Zinc stearate	557-05-1	Oral LD50 Rat : >10 gm/kg; Oral LD50 Mouse : >10 gm/kg
Carbon black	1333-86-4	Oral LD50 Rat : >15400 mg/kg; Dermal LD50 Rabbit : >3 gm/kg

## XII. ECOLOGICAL INFORMATION

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

### **XIII. DISPOSAL CONSIDERATIONS**

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**Waste Description for Spent Product:** The waste may be a listed and/or characteristic 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:**

Acetone	67-64-1	32.87 %
Toluene	108-88-3	5.74 %

### **XIV. TRANSPORTATION INFORMATION**

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

### **XV. REGULATORY INFORMATION**

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<b>Chemical Name</b>	<b>Regulation</b>	<b>CASRN</b>	<b>%</b>
Toluene	SARA 313 Reportable:	108-88-3	5.74
Isopropyl alcohol	SARA 313 Reportable:	67-63-0	2.15
sec-Butyl alcohol	SARA 313 Reportable:	78-92-2	0.01
Carbon Black	California Proposition 65 Cancer List:	1333-86-4	0.53
Toluene	California Proposition 65 Developmental Toxicity:	108-88-3	5.74
Ethyl alcohol	California Proposition 65 Developmental Toxicity:	64-17-5	4.11
acetone	New Jersey Right To Know:	67-64-1	32.87
n-butyl acetate	New Jersey Right To Know:	123-86-4	17.69
propane	New Jersey Right To Know:	74-98-6	15.14
isobutane	New Jersey Right To Know:	75-28-5	6.86
toluene	New Jersey Right To Know:	108-88-3	5.74

### **XVI. ADDITIONAL INFORMATION**

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**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.