



B650-2816 Behkol Solvent

# 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: 1                      Flammability: 3                      Reactivity 0

PRODUCT NAME: B650-2816 Behkol Solvent

## I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 19/02/02  
SUPERCEDES: 31/01/02  
MSDS NO. B650-2816

## II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
Ethanol	81-90	64-17-5	1000 ppm TWA; 1900 mg/m3 TWA
n-Propyl Acetate, Propyl Ester, Propyl Acetate	1-10	109-60-4	200 ppm TWA; 840 mg/m3 TWA
Isobutyl Alcohol	1-10	78-83-1	100 ppm TWA; 300 mg/m3 TWA
isopropanol	1-10	67-63-0	400 ppm TWA; 980 mg/m3 TWA

## III. HAZARDS IDENTIFICATION

**Routes of Entry:** Inhalation., Ingestion., Skin contact., Eye contact., Absorption.  
**Medical Conditions Aggravated:** Eye disease. Liver 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 moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

**Skin Contact:** Substance causes moderate skin irritation. 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.

**Eye Contact:** Irritating but will not 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:** Component(s) may be absorbed through intact skin, but it is unlikely that harmful effects will occur unless contact is prolonged, repeated, and extensive. No absorption hazard in normal industrial use.

**Ingestion:** No data. Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

**Target Organ Acute Toxicity:**

Ethyl alcohol	respiratory system, skin, eyes, CNS, liver, blood, reproductive system
n-Propyl acetate	skin, eyes, CNS, respiratory system
Isobutyl alcohol	eyes, skin, respiratory system, CNS
Isopropyl alcohol	eyes, skin, respiratory system

**Long-Term (Chronic) Health Effects:**

**Carcinogenicity:** None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA.

**Reproductive and Developmental Toxicity:** No information available.

**Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

**Inhalation:** No data.

**Skin Contact:** No data.

**Eye Contact:** No data.

**Skin Absorption:** No data.

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

**Supplemental Health Hazard Information:** No additional health information available.

**IV. FIRST AID**

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**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Remove to fresh air. Get medical attention immediately. Have a trained individual administer humidified oxygen. If not breathing, give artificial respiration.

**Eyes:** Flush eye with water for 20 minutes. Get 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 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 data. 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.

**Notes to MD:** No additional first aid information available.

## **V. FIRE FIGHTING MEASURES**

### **Flammability Summary:**

**Flash Point:** 12C; 54F

**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. Container may explode in heat of fire. Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

**Extinguishing Media:** Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used to extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

**Fire Fighting Instructions:** 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. Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

**Hazardous Combustion Products:** Carbon monoxide Toxic gases

## **VI. ACCIDENTAL RELEASE MEASURES**

**Health Consideration for Spill Response:** No data. No health effects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section VIII of this MSDS

**Spill Mitigation Procedures General Methods:** No data. No special spill clean-up considerations. Collect and discard in regular trash.

## **VII. HANDLING AND STORAGE**

**Handling:** 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. Use spark-proof tools and explosion-proof equipment. Remove contaminated clothing and wash before reuse.

**Storage:** Do not store near combustible materials. Keep container closed when not in use. Keep away from heat, sparks, and flame. Keep away from sources of ignition.

## VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

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

### 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>	CLEAR LIQUID
<b>Odor:</b>	STRONG SOLVENT
<b>Solids Vol %:</b>	0
<b>Solids Wt %:</b>	0
<b>Material VOC lbs/gal:</b>	6.6286
<b>Material VOC gms/l:</b>	796.041
<b>Weight per gallon:</b>	6.6437

## X. STABILITY AND REACTIVITY

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**Conditions to Avoid:** Contamination.

**Chemical Incompatibility:** Strong oxidizing agents. Nitrogen oxides. Strong acids. Strong alkalis.

## XI. TOXICOLOGICAL INFORMATION

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Chemical Name	CAS Number	LD50/LC50
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, propyl ester	109-60-4	Oral LD50 Rat : 9370 mg/kg; Oral LD50 Mouse : 8300 mg/kg; Dermal LD50 Rabbit : >20 mL/kg
Isobutyl alcohol	78-83-1	Oral LD50 Rat : 2460 mg/kg; Dermal LD50 Rabbit : 3400 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

## XII. ECOLOGICAL INFORMATION

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

## Ecological Toxicity Values:

### XIII. DISPOSAL CONSIDERATIONS

**Waste Description for Spent Product:** No data. Spent or discarded material is a hazardous waste.

**Disposal Methods:** Comply with all Local, State, Federal, and Provincial Environmental Regulations. Dispose of in a landfill. Disposal is not likely to be regulated.

**Potential EPA Waste Codes:** If discarded, this product is considered a RCRA ignitable waste, D001.

#### **Components Subject to USEPA Land Disposal Restrictions:**

Isobutyl alcohol	78-83-1	4.5 %
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### XIV. TRANSPORTATION INFORMATION

**DOT** Paint 3 UN1263 PG II  
Quart or less ORM-D \*\*\* Label: None

### XV. REGULATORY INFORMATION

Toxic Substances Control Act (TSCA): A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances.

<b>Chemical Name</b>	<b>Regulation</b>	<b>CASRN</b>	<b>%</b>
Isopropyl alcohol	SARA 313 Reportable:	67-63-0	4.3
Ethyl alcohol	California Proposition 65 Developmental Toxicity:	64-17-5	86.43
Ethanol	New Jersey Right To Know:	64-17-5	86.43
n-Propyl acetate	New Jersey Right To Know:	109-60-4	4.78
Isobutyl Alcohol	New Jersey Right To Know:	78-83-1	4.5
isopropanol	New Jersey Right To Know:	67-63-0	4.3

### 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.