



B700-150 Danish Oil

# 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: 2                      Reactivity 0

PRODUCT NAME: B700-150 Danish Oil

## I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 10/11/03  
SUPERCEDES: 14/03/02  
MSDS NO. B700-150

## II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
aliphatic petroleum distillates	51-60	64742-47-8	No PEL established
linseed oil	11-20	8001-26-1	No PEL established
Natural occurring oil	11-20		No PEL established
Proprietary Resin	11-20	PROPRIETARY	No PEL established
aliphatic hydrocarbons	1-10	8052-41-3	500 ppm TWA; 2900 mg/m3 TWA
cobalt compounds (cobalt carboxylate)	<1	7440-48-4	0.1 mg/m3 TWA
m-xylene	<1	108-38-3	No PEL established
cumene	<1	98-82-8	50 ppm TWA; 245 mg/m3 TWA
ethylbenzene	<1	100-41-4	100 ppm TWA; 435 mg/m3 TWA

## III. HAZARDS IDENTIFICATION

**Routes of Entry:** Inhalation., Absorption., Skin contact., Eye contact., Ingestion.  
**Medical Conditions Aggravated:** Persons with reduced pulmonary function may experience breathing difficulty. Pre-existing skin or respiratory conditions. Kidney disease. Eye disease. Skin disease including eczema and sensitization. Digestive tract disease. Liver disease.

### Immediate (Acute) Health Effects

**Inhalation:** No hazard in normal industrial use. Can cause severe central nervous system depression (including unconsciousness). Causes respiratory tract irritation. Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

**Skin Contact:** Continued or prolonged contact may irritate the skin and cause a skin rash (dermatitis). Moderately irritating to the skin. Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage. No hazard in normal industrial use.

**Eye Contact:** Can cause irritation. Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

**Skin Absorption:** Can be absorbed through the skin but exposure must be extensive before adverse health effects occur. Toxic and may be harmful if absorbed through the skin; may produce target organ damage. Minimal hazard in normal industrial use. May cause gastrointestinal discomfort.

**Ingestion:** 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. 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:**

Stoddard solvent	skin, eyes, CNS, respiratory system, kidneys
Cobalt metal, dust and fume	respiratory system, skin
m-Xylene	CNS, eyes, blood, liver, kidneys, skin, GI tract, respiratory system
Cumene	eyes, respiratory system, skin, CNS
Ethyl benzene	eyes, respiratory system, skin, CNS

**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:** A component in this product has been shown to cause birth defects and reproductive disorders in laboratory animals at doses that could be encountered in the workplace. 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. Prolonged contact with this product can cause reddening, swelling, rash, scaling, or blistering. In those who have developed skin sensitization, these symptoms can develop as a result of contact with a very small amount of the liquid material. May cause lingering effects but not likely to result in permanent damage if the exposure is eliminated. 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 severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. 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:** Kidneys. Eyes. Skin. Nervous System. Respiratory Tract. Digestive Tract. Liver. Blood.

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

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

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

**Eyes:** 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.

**Skin Contact:** Wash with mild soap and water. If irritation occurs get medical attention. If clothing is contaminated, remove and wash before reuse. Wash with soap and water. Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

**Ingestion:** DO NOT induce vomiting. Get immediate medical attention. 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**

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

**Flash Point:** 105 (CALC.) °F  
**Upper Flammable/Explosive Limit, % in air:** 0.6 @ 77° F  
**Lower Flammable/Explosive Limit, % in air:** 7.0 @ 77° F

**Fire Hazards:** Vapors are heavier than air and can travel to a source of ignition and flash back. Items soaked in this material could spontaneously combust. Dispose of properly. Vapors may be ignited by sparks, flames or other sources of ignition if material is above the 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:** Foam Carbon dioxide Dry chemical H<sub>2</sub>O, CO<sub>2</sub>, dry chemical, foam. 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:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Apply cooling water to exposed containers well after fire is out. Use methods for the surrounding fire. Do not enter fire area without proper protection including self-contained 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.

**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:** Spontaneous combustion can occur. Harmful or irritating material. Avoid contact and avoid breathing the material. Use only in a well ventilated area.

**Storage:** Spontaneous combustion can occur. Keep away from sources of ignition. Store in a cool dry place. Isolate from incompatible materials.

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

**Engineering Controls:** Facilities storing or using this material should be equipped with an eyewash and safety shower. 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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**Physical State:** COLORED LIQUID  
**Odor:** OILY HYDROCARBON  
**Solids Vol %:** 37.0241  
**Solids Wt %:** 42.4772  
**Material VOC lbs/gal:** 4.041  
**Material VOC gms/l:** 485.2927  
**Coatings VOC lbs/gal:** 4.041  
**Coatings VOC gms/l:** 485.2927  
**Weight per gallon:** 7.0411

## X. STABILITY AND REACTIVITY

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**Stability Information:** Spontaneous combustion can occur. Stable under normal conditions.  
**Conditions to Avoid:** Avoid: heat, sparks, flame and oxidizing agents. None known.  
**Chemical Incompatibility:** Oxidizing materials. Strong oxidizing agents. Strong acids. Acids.  
**Hazardous Polymerization:** Hazardous Polymerization will not occur.

## XI. TOXICOLOGICAL INFORMATION

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Chemical Name	CAS Number	LD50/LC50
Cobalt	7440-48-4	Oral LD50 Rat : 6171 mg/kg
m-Xylene	108-38-3	Oral LD50 Rat : 5 gm/kg; Dermal LD50 Rabbit : 14100 uL/kg
Cumene	98-82-8	Inhalation LC50 Mouse : 10 gm/m3/7H; Oral LD50 Rat : 1400 mg/kg; Oral LD50 Mouse : 12750 mg/kg; Dermal LD50 Rabbit : 12300 uL/kg
Benzene, ethyl-	100-41-4	Oral LD50 Rat : 3500 mg/kg; Dermal LD50 Rabbit : 17800 uL/kg

## XII. ECOLOGICAL INFORMATION

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**Overview (for ingredients):** No data available. This material is not expected to be harmful to the ecology.

## XIII. DISPOSAL CONSIDERATIONS

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**Waste Description for Spent Product:** Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures. Spent or discarded material is a hazardous waste.

**Disposal Methods:** Comply with all Local, State, Federal, and Provincial Environmental Regulations. Dispose of in a permitted industrial waste landfill 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:

Ethyl benzene	100-41-4	0.01 %
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#### **XIV. TRANSPORTATION INFORMATION**

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**DOT** PAINT, 3, UN 1263, III

#### **XV. REGULATORY INFORMATION**

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<b>Chemical Name</b>	<b>Regulation</b>	<b>CASRN</b>	<b>%</b>
Cobalt	SARA 313 Reportable:	7440-48-4	0.07
m-Xylene	SARA 313 Reportable:	108-38-3	0.02
Cumene	SARA 313 Reportable:	98-82-8	0.02
Ethyl benzene	SARA 313 Reportable:	100-41-4	0.01
o-Xylene	SARA 313 Reportable:	95-47-6	0.01
p-Xylene	SARA 313 Reportable:	106-42-3	0.01
Cobalt metal powder	California Proposition 65 Cancer List:	7440-48-4	0.07
aliphatic petroleum distillates	New Jersey Right To Know:	64742-47-8	54.92
linseed oil	New Jersey Right To Know:	8001-26-1	17.75
Natural occurring oil	New Jersey Right To Know:		14.29
Proprietary Resin	New Jersey Right To Know:	PROPRIETARY	10.11
aliphatic hydrocarbons	New Jersey Right To Know:	8052-41-3	1.12

#### **XVI. ADDITIONAL INFORMATION**

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**Other Information:**

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MSDS glossary.