

# Vacuum Pumps and Systems

Busch, Inc. 516 Viking Drive, Virginia Beach, Virginia 23452



## MATERIAL SAFETY DATA SHEET

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<b>Product/Material:</b>	Busch R-530 Oil	<b>Emergency Telephone No.</b>
<b>Manufacturer:</b>	Busch, Inc.	<b>Chemtrec: (800) 424-9300</b>
<b>Address:</b>	516 Viking Drive Virginia Beach, VA 23452	<b>Non-emergency Telephone No.</b> <b>Busch, Inc. (757) 463-7800</b>

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### SECTION I - PRODUCT IDENTIFICATION

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<b>Trade Name and Synonyms:</b>	R-530 Oil
<b>Chemical Family:</b>	Paraffin Pale Oils
<b>DOT Hazard Class:</b>	None
<b>Warning Statement:</b>	None

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### SECTION II - OCCUPATIONAL CONTROL PROCEDURES

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<b>Eye Protection:</b>	Chemical-type goggles or face shield optional.
<b>Skin Protection:</b>	Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin areas several times daily with soap and water, and laundering or dry cleaning soiled work clothing at least weekly.
<b>Inhalation:</b>	None required if exposures are within permissible concentrations; see below.
<b>Ventilation:</b>	Normal

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<b>Permissible Concentrations (Air):</b>	5 mg/m <sup>3</sup> of air for mineral oil mist averaged over an 8-hour daily exposure (ACGIH 1984-85).
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### SECTION III - EMERGENCY AND FIRST AID PROCEDURES

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<b>Eye Contact:</b>	As with most foreign materials, should eye contact occur, flush eyes with plenty of water and seek medical attention if irritation persists.
<b>Skin Contact:</b>	Wash with soap and water. Seek medical attention if irritation persists.
<b>Ingestion:</b>	If more than several mouthfuls have been swallowed, drink 16 ounces of water and seek medical attention.
<b>Inhalation:</b>	If irritation or drowsiness occurs, move to fresh air.

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### SECTION IV - PHYSIOLOGICAL EFFECTS

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<b>Effects of Exposure:</b>	
<b>Eyes:</b>	Believed to be minimally irritating.
<b>Skin:</b>	Believed to be minimally irritating.

#### SECTION IV - PHYSIOLOGICAL EFFECTS (Cont.)

**Respiratory System:** Believed to be minimally irritating if not in excess of permissible concentrations; see page 1.

**Chronic:** N/D

**Sensitization Properties:**

**Skin:** Yes \_\_\_ No \_\_\_ Unknown X

**Respiratory:** Yes \_\_\_ No \_\_\_ Unknown X

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#### **Median Lethal Dose (LD<sub>50</sub> LC<sub>50</sub>) (Species):**

**Oral:** Believed to be >5g/kg (rat); practically nontoxic.

**Inhalation:** N/D

**Dermal:** Believed to be LD50 >2.00 g/kg (rabbit); practically nontoxic.

**Other:** N/D

#### **Irritation Index, Estimation of Irritation (Species):**

**Skin:** (Draize) <.50 /8.0 (rabbit); no appreciable effect.

**Eyes:** (Draize) <15.00 /110 (rabbit); no appreciable effect.

**Symptoms of Exposure:** None expected other than possible minimal irritation.

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#### SECTION V - FIRE PROTECTION INFORMATION

**Auto-ignition Temperature:** N/D

**Flash Point (Method):** 460°F (COC)

**Flammable Limits (%):** Lower: N/D Upper: N/D

**Products Evolved When Subjected To Heat or Combustion:** Carbon monoxide, carbon dioxide, aldehydes and ketones, combustion products of nitrogen and sulfur.

**Recommended Fire Extinguishing Agents and Special Procedures:** According to the National Fire Protection Association Guide, use water spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for persons attempting to stop the leak.

**Unusual or Explosive Hazards:** None

**National Fire Protection Association:** Health: 0 Reactivity: 0 Flammability: 1 Special: \_\_\_

## SECTION VI - ENVIRONMENTAL PROTECTION

**Waste Disposal Method:** Under RCRA, it is the responsibility of the user of products to determine, at the time of disposal, whether product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixture, processes, etc., may render the resulting material hazardous (see Remarks for Waste Classification).

**Procedures in Case of Breakage or Leakage:** Contain spill if possible. Wipe up or absorb on suitable material and shovel up.

**Remarks:** Waste Classification: Product has been evaluated for RCRA characteristics and does not meet criteria of a hazardous waste if discarded in its purchased form.

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## SECTION VII - PRECAUTIONS

None considered necessary.

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**Requirements for Transportation, Handling, and Storage:** Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

**DOT Proper Shipping Name:** N/A  
**DOT Hazard Class:** N/A

### **Regulatory Information:**

SARA Title III, Section 302/304,  
Extremely Hazardous Substance CERCLA Section 102(A)DOT Hazardous Substance

<u>Component</u>	<u>CAS No.</u>	<u>Percent</u>	<u>RQ (lbs.)</u>	<u>Component</u>	<u>CAS No.</u>	<u>Percent</u>	<u>RQ (lbs.)</u>	<u>TPQ (lbs.)</u>
None				None				

Title III, Section 311 Hazard Categorization Title III, Section 313 Toxic Chemicals

<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactive</u>	<u>-</u>	<u>N/A</u>	<u>Component</u>	<u>CAS No.</u>	<u>Percent</u>
X	-	-	-	-	-	-	None		

**WHMIS Classification** - N/A

**Michigan Critical Materials** - None Present

**TSCA Inventory Status:** This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

**State Regulations: California Proposition 65** - none of the detectable components are substances, or belong to classes of substances, known to cause cancer and/or reproductive toxicity.

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## SECTION VIII - CHEMICAL AND PHYSICAL PROPERTIES

**Boiling Point (°F):** N/D  
**Vapor Pressure (mm Hg):** N/D  
**Specific Gravity (H<sub>2</sub>O = 1)** .8751  
**Vapor Density (Air = 1):** N/D

**SECTION VIII - CHEMICAL AND PHYSICAL PROPERTIES (Cont.)**

**pH of Undiluted Product:** N/A  
**Solubility:** N/D  
**% Volatile by Volume:** N/D  
**Evaporation:** N/D  
**Viscosity:** 107 cST @ 40°C

**Appearance and Odor:** Dark pale liquid/oil-type odor

**Hazardous Polymerizations:** Do not occur

**Material Reacts Violently With:** Air \_\_\_ Water \_\_\_ Heat \_\_\_ Strong Oxidizers X Others \_\_\_  
None of These \_\_\_\_\_

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**SECTION IX - COMPOSITION**

**Chemical/Common Name:** Solvent-dewaxed heavy paraffinic petroleum distillates.  
**CAS No:** 64742-65-0  
**Exposure Limit: (mineral oil misty)** 5.0 mg/m<sup>3</sup> OSHA, 5.0 mg/m<sup>3</sup> ACGIH TLV-TWA 5 mg/m<sup>3</sup>  
**Range in %:** 100

Mineral oil mist has a permissible exposure level (PEL); therefore, this product by that definition could be considered hazardous under OSHA (1910.1200).

**HMIS:** Health: 0 Reactivity: 0 Flammability: 1

Exposure limits referenced by sequence number in the composition section

Seq. Limit

01 5 mg/m<sup>3</sup> TWA-OSHA (MINERAL OIL MIST)  
01 5 mg/m<sup>3</sup> TWA-ACGIH (MINERAL OIL MIST)  
01 10 mg/m<sup>3</sup> STEL ACGIH (MINERAL OIL MIST)

Criteria for listing components that are carcinogens:

0.1% or greater are listed, components listed by OSHA as hazardous when present at 1.0% or greater; non-hazardous components are listed at 3.0% or greater. This publication is not intended to be a complete composition disclosure.

Product and/or components carcinogenic according to:

OSHA IARC NTP OTHER NONE  
- - - - X

**Notice:** The data and recommendations presented herein are based upon data that is considered to be accurate. However, Busch makes no guarantee or warranty, either expressed or implied, of the accuracy or completeness of this data and recommendations.

**Caution:** Misuse of empty containers can be hazardous. Empty containers if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion, or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.

**N/D** - Not Determined  
< - Less Than

**N/A** - Not Applicable  
> - Greater Than