

Vacuum Pumps and Systems

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



MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

Product/Material:	Busch R-590 Vacuum Pump Oil	Emergency Telephone No.
Manufacturer:	Busch, Inc.	Chemtrec: (800) 424-9300
Address:	516 Viking Drive Virginia Beach, VA 23452	Non-emergency Telephone No. Busch, Inc. (757) 463-7800
Trade Name and Synonyms:	R-590 Vacuum Pump Oil	
Chemical Family:	Hydrotreated Mineral Oil	
DOT Hazard Class:	None	
Warning Statement:	None per OSHA 29CFR 1910	

SECTION II - OCCUPATIONAL CONTROL PROCEDURES

Eye Protection:	Safety glasses. Chemical-type goggles or face shield as required by individual company.
Skin Protection:	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.
Inhalation:	None required if exposures are within permissible concentrations; see below.
Ventilation:	Normal
Permissible Concentrations (Air):	5 mg/m ³ of air for mineral oil mist averaged over an 8-hour daily exposure (ACGIH 1984-85).

SECTION III - EMERGENCY AND FIRST AID PROCEDURES

Eye Contact:	As with most foreign materials, should eye contact occur, flush eyes with plenty of water.
Skin Contact:	None considered necessary. Nontoxic by skin absorption.
Ingestion:	Call a physician.
Inhalation:	None considered necessary.

SECTION IV - PHYSIOLOGICAL EFFECTS

Effects of Exposure

Eyes: Believed to be minimally irritating.

Skin: Believed to be minimally irritating.

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

Chronic: Not determined

Sensitization Properties:

Skin: Yes ___ No ___ Unknown X

Respiratory: Yes ___ No ___ Unknown X

Median Lethal Dose (LD₅₀ LC₅₀) (Species)

Oral: Not determined

Inhalation: Not determined

Dermal: Not determined

Other: Not determined

Irritation Index, Estimation of Irritation (Species)

Skin: Not determined

Eyes: Not determined

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

SECTION V - FIRE PROTECTION INFORMATION

Auto-ignition Temperature: Not determined

Flash Point (Method): 485°F (COC) ASTM D92

Flammable Limits (%): Lower: Not determined Upper: Not determined

NFPA: Health: 0 Flammability: 1 Reactivity: 0

Special Firefighting Hazards: When this fluid is burning, it may evolve irritating/noxious fumes. Fire fighters wear NIOSH/MNSA approved, self-contained breathing equipment.

Extinguish Media: 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

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.

SECTION VII - PRECAUTIONS

None considered necessary.

Transportation, Handling and Storage Requirements: 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: Not applicable
DOT Hazard Class: Not applicable

Regulatory Information: SARA Title III, Section 302/304, Extremely Hazardous Substance

Component CAS No. Percent RQ (lbs.) TPO (lbs.)

None

SECTION VIII - CHEMICAL AND PHYSICAL PROPERTIES

Boiling Point (°F): Not determined

Vapor Pressure (mm Hg): Not determined

Specific Gravity (H₂O = 1): 0.864

Vapor Density (Air = 1): Not determined

pH of Undiluted Product: Not applicable
Solubility: Not determined

% Volatile by Volume: Not determined
Evaporation: Not determined
Viscosity: 108 cST @ 40°C
Appearance and Odor: Light amber, little odor
Hazardous Polymerizations: Does not occur
Material Reacts Violently With: Air ___ Water ___ Heat ___ Strong Oxidizers ___
Others ___ None of These X

SECTION IX - COMPOSITION

CAS No.: 8042-47-5
Chemical/Common Name: Hydrotreated mineral oil
OSHA Class: 29CFR 1910
Exposure Limit: 5.0 mg/m³ TWA

Mineral oil mist has a permissible exposure level (PEL); therefore, this product by that definition could be considered hazardous under OSHA (1910.1200). No special warning labels are required.

HMIS: Health: 0 Flammability: 1 Reactivity: 0

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.

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.