

Vacuum Pumps and Systems

Busch LLC, 516 Viking Drive, Virginia Beach, VA 23452



MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

Product:	Busch R 590 Vacuum Pump Oil	Emergency Telephone No.
Manufacturer:	Busch LLC	Chemtrec: (800) 424-9300
Address:	516 Viking Drive	Non-emergency Telephone No.
	Virginia Beach, VA 23452	Busch LLC (757) 463-7800

SECTION II - COMPOSITION / INGREDIENTS

Chemical name:	Hydrotreated, paraffinic mineral oil
Chemical family:	Semi-synthetic Hydrocarbon
Ingredients:	Proprietary
CAS No.:	Proprietary
Concentration:	100 % volume

SECTION III - HAZARDS IDENTIFICATION

Emergency overview:	
Appearance & odor:	Clear liquid, light amber tint. Slight odor
Health hazards:	No known immediate health hazards. Contains no known carcinogens.
HMIS ratings:	Health = 0, Fire = 1, Reactivity = 0, Personal Protection = B
NFPA ratings in air:	not established
Inhalation:	Product is not toxic by inhalation, but avoid breathing oil mists.
Eye contact:	If product enters eyes minor irritation may occur.
Skin contact:	Upon contact with skin wash exposed area with soap and water.
Ingestion:	May cause nausea and diarrhea.

For additional health information, refer to Section 11.

SECTION IV - FIRST AID MEASURES

Inhalation:	If oil mist is inhaled, remove to fresh air and consult physician.
Skin:	Remove contaminated clothing and shoes and wipe excess from skin. Flush skin with water and wash with soap and water. If irritation occurs get medical attention.
Eyes:	Flush with water. If irritation occurs get medical attention.
Ingestion:	Do NOT induce vomiting. If conscious, give 2 glasses of water and consult physician. May cause nausea and diarrhea.

SECTION V - FIRE FIGHTING MEASURES

Flash point (Cleveland Open Cup):	465–515°F
Flammable limits:	Not established

Auto-ignition temperature: No data
NFPA rating: Health = 0, Flammability = 1, Reactivity = 0, Personal Protection = B
Extinguishing media: Dry chemical; CO₂ foam; water spray (fog)
Unusual fire or explosion hazards: None
Special fire fighting instructions: Toxic fumes, gases or vapors may evolve on burning. Firefighters should use NIOSH/MNSA-approved self-contained breathing apparatus. Use water to cool fire-exposed containers. Use water carefully near exposed liquid to avoid frothing and splashing of hot liquid.

SECTION VI - ACCIDENTAL RELEASE MEASURES

In case of spill: Wear suitable protective equipment, especially goggles. Stop the source of the spill. Dike the spill area. Use absorbent materials to soak up fluid (i.e. sand, sawdust and commercially available materials). Wash the spill area with large amounts of water. Properly dispose of all materials.

SECTION VII - HANDLING AND STORAGE

Handling: Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin, wash exposed area with soap and water. If product enters eyes, flush with water for 15 minutes and consult physician. Wash contaminated clothing before reuse.
Storage: Keep container tightly sealed when not in use. Keep away from open flames or high heat.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical: Oil mist, mineral Limit: ACGIH TLV, TWA – 5 mg/m³
Respiratory protection: None if used in well ventilated area
Ventilation: Local exhaust
Eyeface protection: Chemical goggles or safety glasses with side shields
Protective gloves: Not required, but recommended, especially for prolonged exposure.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid, light amber tint.
Substance chemical family: Semi-Synthetic Hydrocarbon
Boiling point: >300°F
Flash point: 465–515°F (Cleveland Open Cup)
Vapor Pressure: <0.01 mmHg@20°C
Specific gravity: 0.87-0.89 (water=1)
Volatiles, % by volume: 0%
Odor: Slight
Solubility in water: Insoluble
Evaporation Rate: Nil (butyl acetate=1)

SECTION X - STABILITY AND REACTIVITY

Stability: Stable
Hazardous polymerization: Will not occur
Incompatible materials: Strong oxidizers
Conditions to avoid: Excessive heat
Hazardous decomposition products: Analogous compounds evolve carbon monoxide, carbon dioxide and other unidentified chemicals when burned. See Section 5.

SECTION XI - TOXICOLOGICAL INFORMATION

Contains no known hazards under applicable laws. Contains no known carcinogens. No special warning labels are required under OSHA 29 CFR 1910.1200.

SECTION XII - ECOLOGICAL INFORMATION

Environmental impact summary: There is no ecological data available for this product.

SECTION XIII - DISPOSAL CONSIDERATIONS

Incinerate this product and all associated wastes in a licensed facility in accordance with Federal, State and Local regulation. This material is not a hazardous waste under RCRA Regulation 40 CFR 261.

SECTION XIV - TRANSPORT INFORMATION

US Department of Transportation classification: This product is not subject to DOT regulations under 49 CFR Parts 171-180

SECTION XV - REGULATORY INFORMATION

This product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200, because it carries the occupational exposure limit for mineral oil mist.

SECTION XVI - OTHER INFORMATION

The information in this material safety data sheet should be provided to all who use, handle, store, transport or are otherwise exposed to this product. We believe the information in this document to be reliable and up to date as of the date of publication, but make no guarantee that it is.