

Vacuum Pumps and Systems

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



MATERIAL SAFETY DATA SHEET

Revision Date: September 15, 2007

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
PRODUCT:	Busch VE 101 Vacuum Pump Oil
MANUFACTURER: Busch, Inc. 516 Viking Drive Virginia Beach, VA 23452	TELEPHONE NUMBERS: General information (non-emergency): (757) 463-7800 Emergency only (Chemtrec): (800) 424-9300

SECTION 2	COMPOSITION/INGREDIENTS
INGREDIENTS:	No hazardous ingredients. See Sections 8, 11 and 14 for details.

SECTION 3	HAZARDS IDENTIFICATION
EMERGENCY OVERVIEW:	Appearance & odor: Amber (light) liquid with mild odor. Health hazards: Classified as not hazardous under OSHA regulations in the US, the WHMIS in Canada, the NOM-018-STPS-2000 in Mexico and Brazil NBR 14725:2001. Physical hazards: No specific hazards but use with care and follow good industrial hygiene practice. HMIS rating: Health = 0, Fire = 1, Reactivity = 0, Special = B NFPA rating: Health = 0, Fire = 1, Reactivity = 0
POSSIBLE ROUTES OF ENTRY:	Inhalation, eye contact, dermal contact, ingestion.
INHALATION:	No known significant effects or critical hazards.
EYE CONTACT:	No known significant effects or critical hazards.
SKIN CONTACT:	May be harmful if absorbed through skin.
INGESTION:	No known significant effects or critical hazards.
POTENTIAL CHRONIC HEALTH EFFECTS:	Carcinogenic effects – not applicable Mutagenic effects – not applicable Teratogenic effects – not applicable
For additional Toxicological information, refer to Section 11.	

SECTION 4**FIRST AID MEASURES****INHALATION:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.

SKIN

Wash with soap and water. Get medical attention if irritation occurs. Remove contaminated clothing and shoes and wipe excess from skin. Flush skin with water and wash with soap and water. Do not reuse clothing until cleaned.

EYES:

In case of contact, check for and remove any contact lenses. Immediately flush eyes with a copious amount of water for at least 20 minutes. Get medical attention if irritation develops.

INGESTION:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

NOTE TO PHYSICIAN:

Not available.

PROTECTION OF FIRST AID PROVIDERS:

No action shall be taken involving any personal risk or without suitable training.

SECTION 5**FIRE FIGHTING MEASURES****FLAMMABILITY OF THE PRODUCT:**

May be combustible at high temperatures.

FLASH POINT: >464°F (Cleveland Open Cup)

EXTINGUISHING MEDIA:

Use an extinguishing agent suitable for the surrounding fire. Do not use a direct stream of water.

SPECIAL FIRE FIGHTING INSTRUCTIONS:

No special hazard, however fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

UNUSUAL FIRE HAZARDS:

Container explosion may occur under fire conditions or when heated. Cool closed containers exposed to fire with water. The final products of combustion are carbon oxides and water. Nitrogen, sulfur and metal oxides may also be produced in some cases.

SECTION 6**ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS:**

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

ENVIRONMENTAL PRECAUTIONS:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

METHODS FOR CLEANING UP:

If emergency personnel are unavailable, contain the spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up the material and place it in a sealable,

liquid-proof container for disposal. For large spills, dike the spilled material or otherwise contain the material to ensure runoff does not reach a waterway. Place the spilled material in an appropriate container for disposal.

SECTION 7 HANDLING AND STORAGE

HANDLING:
Avoid prolonged contact with eyes, skin and clothing. Wash thoroughly after handling.

STORAGE:
Keep the container tightly closed. Keep the container in a cool, well-ventilated area.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:
Consult local authorities for acceptable exposure limits.

ENGINEERING MEASURES:
No special ventilation required. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

EYE PROTECTION:
Safety glasses with side shields.

SKIN PROTECTION/BODY:
Not applicable.

HAND PROTECTION:
Natural rubber gloves (latex).

RESPIRATORY PROTECTION:
Not applicable.

PERSONAL PROTECTION IN CASE OF LARGE SPILLS:
Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus and full protective gear. Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR:
Light colored, amber liquid.
Mild odor.

Flash point: >464°F (Cleveland Open Cup)
Specific gravity: 0.96 (Water = 1)

SECTION 10 STABILITY AND REACTIVITY

STABILITY:
Material is stable under normal conditions.

CONDITIONS TO AVOID:
Avoid heat and open flames.

MATERIALS TO AVOID:
Avoid contact with oxidizing agents and acids.

HAZARDOUS POLYMERIZATION:
Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Eyes: No known significant effects or critical hazards.
Skin: May be harmful if absorbed through skin.
Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.

POTENTIAL CHRONIC HEALTH EFFECTS:

Carcinogenic: Not applicable.
Mutagenic: Not applicable.
Teratogenic: Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

ENVIRONMENTAL PRECAUTIONS:

Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

PRODUCTS OF DEGRADATION:

The final products of biodegradation are carbon oxides and water. Nitrogen and sulfur oxides and metal salts may also be produced in some cases.

TOXICITY OF THE PRODUCTS OF BIODEGRADATION:

The products of degradation are less toxic than the product itself.

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

SECTION 14 TRANSPORT INFORMATION

NAERG:
Not applicable.

REGULATORY INFORMATION:

Not regulated by any transport mode under UN, IMDG, IATA, DOT, TDA guidelines.

SECTION 15 REGULATORY INFORMATION

UNITED STATES

HCS Classification: Not regulated.

U.S. Federal Regulations:

TSCA 8(b) inventory: All components listed.

SARA 302/304/311/312 extremely hazardous substances: No products found.

SARA 302/304 emergency planning and notification: No products found.

SARA 302/304/311/312 hazardous chemicals: No products found.

SARA 311/312 MSDS distribution – chemical inventory – hazard identification: No products found.
 Clean Water Act (CWA) 307: No products found.
 Clean Water Act (CWA) 311: No products found.
 Clean Air Act (CAA) 112 accidental release prevention: No products found.
 Clean Air Act (CAA) 112 regulated flammable substances: No products found.
 Clean Air Act (CAA) 112 regulated toxic substances: No products found.

State Regulations:

No products found.
 WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant Risk	Maximum acceptable dosage level
Diphenylamine	No	Yes	No	No

CANADA:

WHMIS (Canada):

Not controlled under WHMIS (Canada)
 CEPA DSL: All components listed.

This product has been classified in accordance with the hazard criteria of the Canadian CPR, the United States OSHA, the Mexican NOM -018-STPS-2000 and the Brazilian NBR 14725:2001. This MSDS contains all the information required by the CPR, OSHA, the American National Standard Institute (ANSI) Z400.1, NOM -018-STPS-2000 and NBR 14725:2001.

MEXICO CLASSIFICATION:

Health = 0, Fire = 1, Reactivity = 0

Hazard ratings: 4 – Extreme
 3 – Serious
 2 – Moderate
 1 – Slight
 0 - Minimal

INTERNATIONAL LISTS:

This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

SECTION 16 OTHER INFORMATION

This material Safety Data Sheet (MSDS) has been reviewed to fully comply with the guidance in the ANSI MSDS standard (ANSI Z400.1-2004). We encourage you to take the opportunity to read the MSDS and review the information contained therein. Read and understand Material Safety Data Sheet before handling or disposing of product.

The information contained in the data sheet is based on the data available to us at this time, and is believed to be accurate based upon that. It is not intended to constitute product performance information, and no express or implied warranty of any kind is made with respect to the product, underlying data or the information contained herein. You are urged to obtain data sheets for all products you buy, process, use or distribute, and are encouraged to advise those who may come in contact with such products of the information contained herein.