



# MATERIAL SAFETY DATA SHEET

## BVA VAC 235

### SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name	VAC 235	Date Prepared	October 15, 1998
Chemical Family	Petroleum Hydrocarbons	Prepared By	David J. Vincent
Manufacturer: BVA OILS P.O. 930301 Wixom, Mi. 48393		Phone	1-810-348-4920
		Emergency Phone	CHEMTRAC
			1-800-424-9300
Material Uses : All purpose vacuum pump oil			

### SECTION II: Composition & Information on Ingredients

Chemical Name	CAS #	EXPOSURE LIMITS			
		TWA (ppm)	STEL (ppm)	CEIL (ppm)	% by V/V
Severely Hydrotreated Paraffinic Oil	72623-84-8	5mg/m <sup>3</sup> (oil Mist)	NA	NA	100
Toxicological data on Ingredients	Acute oral toxicity : LD50 > 5000 mg/kg (rat)				

### SECTION III: Hazard Identification

Eye :	May cause eye irritation.
Inhalation :	If sprayed or misted may cause chemical pneumonitis.
Ingestion :	Low toxicity on ingestion, has laxative effect.
Skin :	Minimally irritating. Prolonged or repeated contact may cause dermatitis.

### SECTION IV : First Aid Procedures

Eye :	Copious warm water flush-15 minutes. Physician assessment if eyes inflamed.
Skin:	Remove contaminated clothing-Launder or dry clean clothes before reuse. Dispose of leather articles.
Inhalation :	Evacuate to a safe area with plenty of fresh air. Allow victim to rest in a well ventilated area then seek medical aid immediately.
Ingestion :	DO NOT induce vomiting. Consult a physician.

**SECTION V : FIRE FIGHTING PROCEDURES**

Flammability of Product	Low Fire Hazard
Auto Ignition Temp.	235 C (435 F)
Flash Point COC	166 C (330 F)
Flammability Limits	Not Applicable
Products to avoid	Strong oxidizing agents, including peroxide, chlorine and strong acids.
Unusual Hazards :	Burning fluid may evolve irritating/noxious fumes.
Extinguishing Agents :	Dry chemical, CO <sub>2</sub> foam, water fog,
Protective Clothing :	Firefighters should use pressure demand NIOSH/MNSA approved self-contained breathing apparatus and full protective gear.
Firefighting Procedures :	<b>SMALL FIRE :</b> Use dry chemicals, CO <sub>2</sub> water spray or foam, <b>SMALL OUT DOOR FIRE ;</b> may extinguished with a portable fire extinguisher. <b>LARGE FIRE :</b> Use dry chemicals, CO <sub>2</sub> water spray or foam Do not use water jet. Respiratory and eye protection required for fire fighting personnel. A self contained breathing apparatus should be used for all indoor fires.

**SECTION VI : ACCIDENTAL RELEASE MEASURES**

Personal Protection :	Wear protective clothing including splash proof goggles, rubber gloves and rubber overshoes. Remove all contaminated clothing promptly.
Procedures:	Floor may be slippery: use care to avoid falling. Contain spill immediately with inert material (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.  <b>CAUTION:</b> Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**SECTION VII : HANDLING AND STORAGE**

Avoid contact with eyes, skin and clothing. WASH hands after handling and before eating.

Ensure that containers are properly secured before moving.

Keep container closed and keep away from oxidizing materials.

Store in a cool-well ventilated area.

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

## SECTION VIII : EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye	Safety glasses (ANSI Z87.1) or approved equivalent.
Skin	For direct contact of more than two hours Viton or Nitrile gloves are needed, otherwise PVC gloves may be used. Wear long sleeve clothing to minimize contact.
Inhalation	Use in well ventilated area. If mist is being generated and exceeds the TWA/TLV listed below than a respiratory program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed.
Engineering Controls	General Ventilation
Exposure Limits	TWA 5mg/m <sup>3</sup> : manufacturers recommendation based on ACGIH TLV for oil mist
Hazardous Decomposition:	Analogous compounds evolve carbon monoxide, carbon dioxide, and other unidentified fragments when burned.

## SECTION IX : PHYSICAL &amp; CHEMICAL PROPERTIES

Appearance	Clear	Specific Gravity (WATER=1)	0.875
Physical State	LIQUID	pH (1%)	Not Applicable
Color	Colorless to light straw	Volatility	Non-Volatile
Odor	Hydrocarbon	Viscosity Sus	330
Vapor Pressure	0.0225mm of Hg@ 20C	Melting Point( Pour Point)	0 F (-17 C)
Vapor Density	Not Applicable	Solubility in Water	insoluble

## SECTION X : STABILITY &amp; REACTIVITY

Stability:	Stable
Conditions to Avoid:	Excessive heat, formation of oil mist.
Material to Avoid:	Strong oxidants such as liquid chlorine, peroxides, concentrated oxygen, sodium hypochlorite, calcium hypochlorite
Hazardous Decomposition:	Analogous compounds evolve carbon monoxide, carbon dioxide, and other unidentified fragments when burned. See Section 5.
Hazardous Polymerization:	Will not occur.
Corrosivity	Not Applicable

## SECTION XI: TOXICOLOGICAL INFORMATION

Routes of Entry : Skin contact and Inhalation	
Dermal LD50 - Rabbit	> 5000 mg / kg
Toxicity to Animals	Oral LD50 > 5000 mg/ kg (rat)
Chronic Effects on Humans	If sprayed or mist may cause chemical pneumonitis. Prolonged exposure to skin may cause chapping, cracking or possible dermatitis.

**SECTION XII : ECOLOGICAL INFORMATION**

Ecotoxicity	Not Determined
BOD5 and COD	Not Determined
Toxicity of Products of Biodegradation	Not Determined

**SECTION XIII : WASTE DISPOSAL**

Consult your local or regional authorities. Preferred waste management priorities are (1) recycle or reprocess. (2) incineration with energy recovery; (3) disposal at licensed waste facility. Ensure that disposal or reprocessing is in compliance with local, state and federal regulations.

**SECTION XIV: TRANSPORT INFORMATION**

This product is non-hazardous. The product contains no known carcinogens. No special warning labels are required under OSHA 29 CFR 1910.1200. OSHA hazard warning are not applicable for this product; Therefore no OSHA Warnings would appear on the label. No EPA hazard classification code.

DOT Classification	Not DOT controlled
DOT (Pictograms)	None

**SECTION XV : REGULATORY INFORMATION**

Degree of Hazard	NFPA	HMIS	HAZARD RATINGS	
Health	0	0	0	Insignificant
Fire	1	1	1	Moderate
Reactivity	0	0	2	High
Specific Hazards	None		3	Extreme
Personal Protection Index		a	4	Extreme
Other Regulations	All components of this formulation are listed in the Domestic Substances List (DBL.. Canadian) and in the Toxic substance Control Act Inventory (TSCA). The product contains no known carcinogens.			
WHMIS (Canada)	Not a WHMIS controlled material			
DSCL (EEC)	Not controlled under DSCL (Europe)			
CERCLA (40 CFR 302.40)	Not Listed, no reportable quantities			
EPCRA or SARA TITLE III Section 313 Toxic Chemicals	Not Listed			

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