

## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME : V LUBE F (EUROPEAN VERSION)**

### 1. Product and Company Identification

Product name: V Lube F  
Synonyms: None  
Item Numbers: H110-30-001 (5 litres), H110-30-002 (25 litres), H110-30-003 (205 litres)

#### European Contact Details

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West Sussex, RH10 9LW, England  
Email: info@edwardsvacuum.com

#### General enquiries

UK : +44 (0)1293 528844  
France : +(33) 1 47 98 24 01  
Germany : +(49) 6420-82-410  
Italy : +(39) 0248-4471

#### US Contact Details

Edwards, Three Highwood Drive, Suite 3-10E,  
Highwood Office Park, Tewksbury, MA 01876

#### General enquiries

+(1) 978-658-5410  
Toll Free: 1-800-848-9800

24 h Emergency telephone number:

Chemtrec: 1-800-424-9300

### 2. Hazards Identification

#### EMERGENCY OVERVIEW

Non-hazardous in bulk liquid form at low to moderate temperatures. Prolonged exposure to skin may possibly cause dermatitis. Inhalation of oil mists or vapours from hot oil may cause irritation of the upper respiratory tract. Toxic gases will be produced at high temperatures.

For short and long term exposure effects see Section 11 Toxicological data.

Eye Effects: Short-term exposure may cause slight irritation.

Skin Effects: Short-term exposure may cause slight irritation. Prolonged or repeated contact may defat and dry skin, and cause dermatitis.

Ingestion/Oral Effects: Low toxicity on ingestion. May produce a laxative effect. Ingestion may lead to aspiration of the liquid product, especially if vomiting occurs. This may result in pneumonitis and/or pulmonary oedema.

Inhalation Effects: The product is not expected to be inhaled in any appreciable quantities under normal ambient conditions. Elevated temperatures or mechanical action may form vapours, mists or fumes, inhalation of which may cause irritation of the respiratory tract.

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MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Repeated contact may aggravate pre-existing skin conditions.

NFPA Hazard codes		HMIS Hazard codes		Rating System
Health	1	Health	1	0 = No Hazard 1 = Slight Hazard 2 = Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard
Flammability	1	Flammability	1	
Instability	0	Reactivity	0	

### 3. Composition/Information on Ingredients

Ingredient	% Weight	CAS No	Hazard class*	Risk phrase*
Severely hydrotreated and hydrocracked base oil (petroleum)	98-99	72623-84-8 72623-86-0 72623-87-1 72623-85-9	Not applicable	Not applicable
Alkarylamine	1-2	Proprietary	N	R51/53

\***Hazard class & Risk phrase.** These columns are only completed for ingredients which are classified as hazardous under EU Directive No 1272/2008 (as amended) and are present in sufficient concentration to make the overall substance hazardous. In all other situations, the column will be completed as "Not applicable".

**Note:** There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

**Skin:** Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Obtain medical attention if symptoms occur.

**Ingestion/Oral:** Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Obtain medical attention if symptoms occur.

**Inhalation:** Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Obtain medical attention if symptoms occur.

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Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

Notes to physician: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Other Information: Safely dispose of heavily contaminated clothing which cannot be cleaned.

## 5. Fire Fighting Measures

Extinguishing Media: Use water spray to cool surfaces exposed to fire and to protect personnel. Shut off source of fuel to the fire. Extinguish with foam, dry chemical or water spray, or allow the fire to burn under controlled conditions. Cover liquid spills with foam.

Fire and Explosion Hazard: Avoid spraying water directly into storage containers due to danger of boilover. In a fire or if heated, a pressure increase will occur and the container may burst. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. See also Section 4 "First Aid Measures" and Section 10 "Stability and Reactivity".

Special Protective Equipment for Fire Fighters: Fire fighters should wear respiratory and eye protection and full turnout gear.

Other information: Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

For Flammability Properties - see Section 9.

## 6. Accidental Release Measures

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions: Avoid dispersal of spilt material, run off, and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Method for cleaning up a small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of through a licensed waste disposal contractor.

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Method for cleaning up a large spill Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas.  
 Wash spillages into an effluent treatment plant or proceed as follows: Contain and collect spillage with noncombustible, absorbent material (for example sand, earth, vermiculite or diatomaceous earth) and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor.  
Note: See Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and Storage

Handling: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. It is recommended that original containers are used for storage.

## 8. Exposure Controls/Personal Protection

### Exposure Limits:

Ingredient	ACGIH - TLV -	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
Mixture of severely hydrotreated and hydrocracked base oil (petroleum)	5 mg/m <sup>3</sup> - 8 H TWA 10 mg/m <sup>3</sup> - STEL (as oil mist, mineral)	5 mg/m <sup>3</sup> - 8 H TWA (as oil mist, mineral)	5 mg/m <sup>3</sup> - 8 H TWA (as oil mist, mineral)

### Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

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### Exposure Controls:

Occupational exposure controls:

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.  
Where vapours or mists may be present, use mechanical ventilation to keep exposure to airborne contaminants below the recommended exposure limits.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Personal Protection:

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.  
Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory Protection:

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapour filter

Hand Protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.  
Recommended: neoprene, nitrile, polyvinyl alcohol (PVA), Viton.

Eye Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin Protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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### 9. Physical and Chemical Properties

Appearance and Odour	Light amber liquid, mild petroleum-like odour	Boiling point	No data available	°C/°F
pH (as supplied)	No data available	Pour Point	-36 / -33	°C/°F
Solubility in Water	Insoluble	Auto Ignition	No data available	°C/°F
Volatile Content by Volume	No data available	Flash Point	200 / 392	°C/°F
Specific Gravity	0.8585 to 0.876 kg/l @ 15 °C	Viscosity	98.4 cSt (@ 40 °C), 14.2 cSt (@ 100 °C) VI = 149	
Vapour Pressure (mbar)	No data available	Vapour Pressure (Torr)	No data available	

### 10. Stability and Reactivity

Stability: Stable under normal working conditions.

Material/Conditions to Avoid: Reactive with oxidising agents and acids.

Hazardous Decomposition: When heated to decomposition temperatures:  
- May release oxides of boron, calcium, carbon, molybdenum, nitrogen, phosphorous and zinc.  
- May release smoke and irritating vapours.

Hazardous Polymerisation: Will not occur.

### 11. Toxicological Information

For a comprehensive description for the various toxicological (health) effects which may arise if the user comes into contact with the substance or preparation refer to Section 2 Hazards Identification.

#### Animal data:

LD50 value: Acute dermal toxicity (rabbit): > 2000 mg/kg.

Acute oral toxicity (rat): > 5000 mg/kg.

LC50 value: Inhalation of dusts and mists (rat): > 2500 mg/m<sup>3</sup> 4 hour/hours.

#### Carcinogenicity:

The product does not contain any chemicals that are listed as carcinogens.

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### 12. Ecological Information

Environmental effects                      No known significant effects or critical hazards.

Aquatic ecotoxicity                      No data available.

Biodegradability                          No data available.

#### **Mobility:**

No data available.

#### **Other adverse effects:**

No known significant effects or critical hazards.

### 13. Disposal Considerations

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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.

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers.

### 14. Transport Information

This product is not classified as dangerous under transport regulations.

PARAMETER	EUROPEAN	CANADIAN TDG	UNITED STATES DOT
Proper Shipping Name	Not applicable	Not applicable	Not applicable
Hazard Class	Not applicable	Not applicable	Not applicable
Identification Number	Not applicable	Not applicable	Not applicable
Shipping Label	Not applicable	Not applicable	Not applicable

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### 15. Regulatory Information

#### European Regulatory Information

This product has been classified in accordance with EU Regulation No 1272/2008 (as amended) on the Classification, Labelling and Packaging of Substances and Mixtures.

Classified as dangerous to supply : No.

Hazard class:	N	Dangerous for the environment.
Risk Phrases:	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases:	Contains (Calcium long chain alkaryl sulfonate). May produce an allergic reaction. Safety data sheet available for professional user on request.	
Symbols:	None.	

#### United States Regulatory Information

This material is on the Toxic Substances Control Act Inventory (TSCA-U.S.).

SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION:

This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 and 40 CFR Part 372.

California Proposition 65: This product does not contain chemical known to the State of California to cause cancer or reproductive toxicity.

#### Canadian Regulatory Information

WHMIS Classification: D2B.

All CAS numbers listed in Section 3 are in the Canadian DSL.



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### 16. Other Information

This MSDS is compiled in accordance with ANSI Z400.1 and Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Sources of information for this data sheet:

- Petro-Canada Supreme 10w-40 Motor Oil Safety Data Sheet, Revision date: 14th January 2010.
- Petro-Canada Supreme 10w-40 Motor Oil Safety Data Sheet, Revision date: 24th July 2006, Version No.: 01.
- Multisol Limited 'V Lube F' Safety Data Sheet. Revision date 24th February 2000, Revision No.: 01

### Glossary:

ACGIH - American Conference of Governmental Industrial Hygienists; ANSI - American National Standards Institute; Canadian TDG - Canadian Transportation of Dangerous Goods; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations; Chemtrec - Chemical Transportation Emergency Center (US); DSL - Domestic Substances List; EH40 (UK) - HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA - Emergency Planning and Community Right-to-Know Act; EU - European Union; HMIS - Hazardous Material Information Service; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OSHA - Occupational Safety and Health Administration, US Department of Labour; PEL - Permissible Exposure Limit; SARA (Title III) - Superfund Amendments and Reauthorization Act; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; STEL - Short Term Exposure Limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-Weighted Average; US DOT - US Department of Transportation; WHMIS - Workplace Hazardous Materials Information System.

### Revisions:

March 2009 - Data Sheet updated to reflect the current regulatory information.

June 2010 - Data Sheet updated to reflect current regulatory information.

July 2010 - Data Sheet updated to reflect latest supplier information.

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