

SAFETY DATA SHEET (SDS)

PRODUCT NAME : V LUBE H

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 Product identifier

Product name: V Lube H
Other means of identification: None known
Item numbers: 000-006-818, 424-051-001, 419-699-001, 419-698-001

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use: Lubricant for hydraulic systems.
Uses advised against: This product must not be used for any purpose other than the identified use without advice from a Subject Matter Expert.

1.3 Details of the supplier of the safety data sheet.

UK contact details

Edwards, Innovation Drive, Burgess Hill, West Sussex,
RH15 9TW, United Kingdom

General enquiries
Tel: +44 (0)8459 212223
Email: info@edwardsvacuum.com

US contact details

Edwards, 6416 Inducon Drive West, Sanborn,
New York, 14132, USA

General enquiries
Toll Free: 1-800-848-9800

1.4 Emergency telephone number

Chemtrec: 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification: Mixture.
Classification according to
Regulation (EC) No. 1272/2008: Not classified as hazardous.
Classification according to
Directive 1999/45/EC: Not classified as hazardous.

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2.2 Label elements

Hazard pictograms: Not applicable.
Signal words: Not applicable.
Hazard statements: Not applicable.
Precautionary statements: Not applicable.

2.3 Other hazards

PBT criteria: No data available.
vPvB criteria: No data available.
Other hazards which do not result in a classification: Prolonged or repeated skin contact may cause irritation and dermatitis.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Ingredient	% Weight	CAS No	Hazard class*	Risk phrase / Hazard Statements*
Severely refined paraffinic mineral and hydrotreated oils **	98 - 99.5	101316-72-7 101316-73-8 74869-22-0 92045-45-9 72623-87-1 64742-54-7	Not applicable	Not applicable
Alkyl fenol	0.18 - 0.30	-	-	R52/53

* Hazard class, Risk phrase and Hazard Statements. 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".

Full text for the declared risk phrases and hazards statements is given in Section 16.

** The mineral base oils contained in this product are severely refined and contain less than 3 % DMSO extractables according to IP 346 method, and are therefore not classified as carcinogens according to EC/94/69 Directive, L note (21st adjustment to EC/67/548 Directive).

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SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Eyes:	Rinse thoroughly with plenty of water for at least 10 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention if symptoms persist.
Skin:	Wash affected area with soap and water. Seek medical attention if symptoms persist. Contaminated clothing should be dry cleaned before reuse.
Ingestion/Oral:	If swallowed, give plenty of water to drink and seek medical attention. DO NOT give anything to drink to an unconscious person. Do not induce vomiting.
Inhalation:	Remove to fresh air and clear air passages. If breathing problems occur, a qualified individual should administer oxygen or artificial respiration. Seek immediate medical attention.
General advice:	None.

4.2 Most important symptoms and effect, both acute and delayed

Potential acute health effects:

Eyes:	May cause mild irritation.
Skin:	May cause mild irritation.
Ingestion / Oral:	Ingestion of large quantities may cause gastro-intestinal effects.
Inhalation:	Inhalation of mists and vapours generated at elevated temperature may cause irritation of the respiratory tract.

Over-exposure symptoms:

Eyes:	No data available.
Skin:	No data available.
Ingestion / Oral:	No data available.
Inhalation:	No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water fog, Carbon Dioxide, foam and dry powder.

Unsuitable extinguishing media: Do NOT use high volume water jets directly on the fire as this may lead to violent frothing. Only use high volume water jets to cool the surrounding area.

5.2 Special hazards arising from the substance or mixture

Fire and explosion hazard: No data available.

Hazardous combustion products Oxides of Carbon, compounds of Sulphur, Phosphorus, Nitrogen and Hydrogen Sulphide.

5.3 Advice for fire-fighters

Special precautions for fire-fighters: No data available.

Special protective equipment for fire-fighters: Firefighters should wear Self-Contained Breathing Apparatus (SCBA) with full face-piece operated in positive pressure mode.

For Flammability Properties - refer to Section 9.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate non-essential staff, or those not equipped with individual personal protective equipment. Turn leaking containers leake side up to prevent the escape of the product. Do not touch or walk through spilled material. Avoid contact with skin and eyes. Put on appropriate personal protective equipment (refer to Section 8).

For emergency responders: No data available.

6.2 Environmental precautions:

Stop the leak if it is safe/possible to do so. Use dykes or bunding to prevent spreading. Avoid contaminating sewers, streams, rivers and other water courses with spilled product. Notify the appropriate authorities if significant contamination occurs.

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6.3 Methods and material for containment and cleaning up

Put on the necessary personal protective equipment: refer to Section 8. Exercise caution; the spill area may be slippery. Extinguish all ignition sources. Absorb material onto vermiculite, dry sand, earth or similar inert absorbent. Place spilled material into a covered container for disposal. Use a suitable cleaning solution to clean up any remaining product. Dispose of according to applicable local, state and federal regulations. Do not flush into surface water or sanitary sewer system.

6.4 Reference to other sections

Refer to Section 8 for information on personal protective equipment.

Refer to Section 13 for information on disposal considerations.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure personal protective equipment is used whenever handling the product, refer to Section 8. Avoid eating, drinking and smoking in areas where the product is used. Practice good hygiene. Wash hands after use and prior to consuming food and drink.

Use in a well ventilated area and avoid generation of mists or aerosols.

7.2 Conditions for safe storage, including any incompatibilities

DO NOT store together with food. Store in original, sealed containers protected from direct sunlight in a dry, cool, well ventilated area away from strong oxidising agents, hard acids, heat and sources of ignition.

7.3 Specific end use(s)

No data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Substance	ACGIH - TLV	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
Oil mists	5 mg/m ³ - 8 hr TWA 10 mg/m ³ - STEL	5 mg/m ³ - 8 hr TWA	No data available

8.2 Exposure controls

Appropriate engineering controls: Ensure good ventilation under all working conditions.

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Individual protection measures:

- Eye/Face Protection: Safety glasses with side shields, safety goggles or face shields in case of oil splashes.
- Hand/Skin Protection: Wear suitable protective clothing such as gloves and overalls/coveralls appropriate to the risk at the specific workplace.
- 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
- Hygiene Measures: Practice good hygiene. Wash face, hands and any exposed skin thoroughly after handling. Immediately remove all soiled and contaminated clothing. Do not eat, drink or smoke while handling the product.
- Other/General Protection: None.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Viscous liquid	Melting point / freezing point	No data available	°C / °F
Odour	No data available	Initial boiling point and boiling range	> 300 / 572	°C / °F
Odour threshold	No data available	Flash point	> 200 / 392	°C / °F
pH	Not applicable	Upper/lower flammability or explosive limits	No data available	°C / °F
Evaporation rate	No data available	Vapour pressure	No data available	kPa
Flammability (solid, gas)	Not applicable	Vapour density	No data available	g/cm ³
Solubility(ies)	Insoluble in water	Relative density	0.89 @ 15 °C	g/l
Partition coefficient: n-octanol/water	No data available	Auto-ignition temperature	No data available	°C / °F
Explosive properties	No data available	Decomposition temperature	No data available	°C / °F
Oxidising properties	No data available	Viscosity	220 @ 40 °C 18.9 @ 100 °C	cSt

9.2 Other information

None.

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SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

None expected under normal conditions of use.

10.4 Conditions to avoid

Sources of heat and ignition.

10.5 Incompatible materials

Strong oxidizing agents, hard acids and bases.

10.6 Hazardous decomposition products

Oxides of Carbon, compounds of Sulphur, Phosphorus, Nitrogen and Hydrogen Sulphide.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: No data available.

Irritation: No data available.

Corrosivity: No data available.

Sensitisation: No data available.

Repeat dose toxicity: No data available.

Carcinogenicity: No data available.

Mutagenicity: No data available.

Specific Target Organ Toxicity (STOT) - single exposure No data available.

STOT - repeated exposure No data available.

Aspiration hazard No data available.

Toxicity for reproduction: No data available.

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Information on likely routes of exposure

No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Eye Effects: May cause mild irritation.
Skin Effects: May cause mild irritation.
Ingestion/Oral Effects: Ingestion of large quantities may cause gastro-intestinal effects.
Inhalation Effects: Inhalation of mists and vapours generated at elevated temperature may cause irritation of the respiratory tract.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data available.

Other information

No data available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

The product is not classified as dangerous for the environment.

12.2 Persistence and degradability

The product is not readily biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

The product shows a weak tendency to evaporation with little mobility in the ground. The product can be absorbed from soil.

12.5 Results of PBT and vPvB assessment

PBT: No data available.
vPvB: No data available.

12.6 Other adverse effects

No known effects.

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SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Dispose of the product in compliance with all applicable local and national regulations.

Packaging: Dispose of the packaging in compliance with all applicable local and national regulations.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

14.2 UN proper shipping name

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

14.3 Transport hazard class

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

14.4 Packing group

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

14.5 Environmental hazards

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

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14.6 Special precautions for user

ADR/RID	IMDG	IATA	United States DOT
Not applicable	Not applicable	Not applicable	Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not applicable.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environment regulations/legislation specific for the substance or mixture

European

This product has been classified in accordance with EU Regulation No 1907/2006 (REACH) on the Classification, Labelling and Packaging of Substances and Mixtures.

Classified as dangerous to supply: No.

German Federal Water Management Act: Water contaminating class - No data available.

United States

Materials contained in this product are on the U.S. Toxic Substances Control Act (TSCA).

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 chemicals known to the State of California to cause cancer or reproductive toxicity.

Canadian

WHMIS Classification: No data available.

Ingredients in this product are included in the Canadian DSL.

15.2 Chemical safety assessment

No data available.

SECTION 16. OTHER INFORMATION

This SDS is compiled in accordance with ANSI Z400.1, Regulation (EC) No 1907/2006 (as amended by Regulation No 453/2010) concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

16.1 Full text of abbreviated statements and phrases

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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16.2 NFPA / HMIS hazard codes

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

16.3 Sources of information for this data sheet

- Sunoco Sunvis 9220 Material Safety Data Sheet. Revision date 16th May 2012.

16.4 Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ANSI - American National Standards Institute; CAS No. - Chemical Abstracts Service number; Chemtrec - Chemical Transportation Emergency Centre (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; GHS - Globally Harmonized System of Classification and Labelling of Chemicals; HMIS - Hazardous Material Information Service; IATA - International carriage of dangerous goods by air; IBC - International Bulk Chemical; IMDG - International carriage of dangerous goods by sea; MARPOL 73/78 - International Convention for the Prevention of Pollution from Ships, 1973 as modified by the protocol of 1978; NFPA - National Fire Protection Association; NIOSH - National Institute for Occupational Safety and Health (US); OSHA - Occupational Safety and Health Administration; PBT - Persistent, bioaccumulative, toxic chemical; PEL - Permissible exposure limit; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - International carriage of dangerous goods by rail; SARA (Title III) - Superfund Amendments and Reauthorization Act; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SDS - Safety Data Sheet; STEL - Short term exposure limit, 15 minute reference period; STOT - Specific Target Organ Toxicity; SCBA - Self-Contained Breathing Apparatus; TLV - Threshold limit value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time weighted average, 8 hour reference period; US DOT - US Department of Transportation; vPvB - Very persistent, very bioaccumulative chemical; WHMIS - Workplace Hazardous Materials Information System.



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16.5 Revisions:

January 2011 - Data Sheet updated to reflect the latest regulatory and supplier safety information.

June 2012 - Data Sheet updated to reflect the latest supplier safety information.

November 2012 - European and US Contact Details updated.

October 2014 - Data Sheet updated to conform to Regulation (EC) No 1907/2006 (as amended by Regulation 453/2010) and GHS.

January 2016 - Contact details updated. Revision date not changed to preserve 2-yearly SDS review date.

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