



MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name: LUBREX VECTOR HD VG-680

Product Code: 00394
SDS No.: LU00394
Product Type: Liquid

1.2Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use of the Substance / Mixture: INDUSTRIAL GEAR OIL

For specific application advice see appropriate Technical Data

Sheet or consult our company representative.

1.3 Details of the Supplier of the Safety Data Sheet

Supplier: Lubrex FZC, P.O 42438, Hamriyah Free Zone, Sharjah

United Arab Emirates

Supplier Phone & Email Address: Phone: +971 6 526 1200 Email: info@lubrex.net

Date of Issue 01-Jan-2023
Date of Revision 01-Jan-2025
Prepared by: Lubrex FZC

1.4Emergency Telephone Number

Emergency Telephone Number: United Arab Emirates, Government of Sharjah, Hamriyah Free

Zone Authority, SAFETY PH NO. +971 6 526 1666 (24x7)

EMERGENCY PH NO. +971 6 526 2111 (24x7)

MSDS: LUBREX VECTOR HD VG-680 Page 1 of 18





SECTION 2: Hazard Identification

2.1 Classification of the Substance / Mixture

Substance / Mixture: Mixture

Highly refined base oil (IP 346 DMSO extract < 3%).

This product does not contain any hazardous ingredients at or

above regulated thresholds.

2.2Label Elements

Signal Word: No signal word.

Hazard Statements: No known significant effects or critical hazards.

Precautionary Statements:

Prevention Not applicable.

Response Not applicable.

Storage Not applicable.

Disposal Not applicable.

Supplemental Label Elements: Not applicable.

Special Packaging Requirements:

Containers to be fitted

Not applicable.

with child-resistant

fastenings

Tactile Warning of Danger: Not applicable.

2.30ther Hazards

Other Hazards which do not Result Defatting to the skin. in Classification:

USED GEAR OIL

Used oil may contain hazardous components, which have the

potential to cause skin cancer.

See Toxicological Information, section 11 of this Safety Data

Sheet.

SECTION 3: Composition/Information on Ingredients

COMPONENTS	CAS NUMBER	AMOUNT
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MSDS: LUBREX VECTOR HD VG-680 Page 2 of 18





Base Oil	64742-65-0 64742-54-7 68037-01-4	70 % - 90 %
Performance Additives	Mixture	10% - 30%

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

Eye Contact: In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get

medical attention.

Skin Contact: Wash skin thoroughly with soap and water or use recognized

skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get

medical attention if irritation develops.

Ingestion: Do not induce vomiting unless directed to do so by medical

personnel. Get medical attention if Symptoms occur.

Inhalation: If inhaled, remove to fresh air. Get medical attention if

symptoms appear. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48

hours.

Protection of First Aiders:

No action shall be taken involving any personal risk or without

suitable training.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

See Section 11 for more detailed information on health effects and symptoms.





4.3 Indication of Immediate Medical Attention and Special Treatment Needed

Notes to Physician: See Section 11 for more detailed information on health effects

and symptoms.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media In case of fire, use foam, dry chemical or carbon dioxide

extinguisher or spray.

Unsuitable Extinguishing Media Do not use water jet.

5.2Special Hazards Arising from Substance / Mixture

Hazards from the Substance or

Mixture

In a fire or if heated, a pressure increase will occur and the

container may burst.

Combustion products may include the following: Carbon Oxides

Hazardous Combustion Products (CO, CO2) (carbon monoxide, carbon dioxide)

5.3Advice for Fire Fighters

Special precautions for fire-fighters 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.

Special protective equipment for

fire-fighters

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental Release Measures

MSDS: LUBREX VECTOR HD VG-680 Page 4 of 18





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 surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid

falling. Put on appropriate personal protective equipment.

note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency

personnel".

6.2Environmental Precautions

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

6.3 Methods and Material for Containment and Cleaning Up

Small Spill Stop leak if without risk. Move containers from spill area. Absorb

with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill Stop leak if without risk. Move containers from spill area.

Prevent entry into sewers, watercourses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

6.4Reference to Other Sections

See Section 1 for emergency contact information.

See Section 5 for firefighting measures.

See Section 8 for information on appropriate personal protective





equipment.

See Section 12 for environmental precautions.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Protective measures Put on appropriate personal protective equipment.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep away from heat and direct sunlight. 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. Store and use only in equipment/containers designed for use with this product. Do not store in unlabeled containers.

7.3 Specific and End Use(s) Recommendations

See section 1.2 and Exposure scenarios in annex, if applicable.

SECTION 8: Exposure Controls / Personal Protection

MSDS: LUBREX VECTOR HD VG-680 Page 6 of 18





8.1 Control Parameters

Occupational Exposure Limits

No exposure limit value known measures.

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for

guidance only.

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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived No Effect Level

No DNELs/DMELs available

Predicted No Effect Concentration

No PNECs available.

8.2 Exposure Controls

Appropriate Engineering Controls Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated.

MSDS: LUBREX VECTOR HD VG-680 **Page 7 of 18**





Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organization for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Individual protection measures
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. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory Measures

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure. In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Eye / Self Protection

Safety glasses with side shades

Skin Protection
Hand Protection

General Information:

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures). Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.





Recommended: Nitrile Gloves

Breakthrough time:

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type. Our recommendations on the selection of gloves are as follows:

Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained. If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes must be determined and rigorously followed.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks.

For Example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

Skin and Body:

Use of protective clothing is good industrial practice. 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. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin.





Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Refer to Standards

Respiratory protection: EN529

Gloves: EN420, EN374 Eye protection: EN166

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.

SECTION 9: Physical and Chemical Properties

9.1Information on Basic Physical and Chemical Properties

Appearance

Physical State Liquid

Color Light Amber

Odour Typical Petroleum

Odour threshold Not Available pH Not Available

Melting point/freezing point Not Available

Initial boiling point and boiling Not Available range Max -9°C

Pour point >180°C

Flash point Not Available
Evaporation rate Not Available
Flammability (solid, gas) Not Available

Upper/lower flammability or

MSDS: LUBREX VECTOR HD VG-680 Page 10 of 18





explosive limits

Vapor pressure

Vapor density

Not Available

Not Available

Relative density 0.835 - 0.90 g/cm3 SP. Gravity @15°C/ $60^{\circ}F$ Insoluble in water.

Solubility Not Available Partition coefficient: Not Available Auto-ignition temperature Not Available

Decomposition temperature Kinematic Viscosity 680.0 cSt @ 40°C/104°F

Viscosity Not Available Explosive properties Not Available

Oxidizing properties

9.20ther Information

No Additional Information

SECTION 10: Stability and Reactivity

10.1 Reactivity

No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

10.2 Chemical Stability

This product is stable.

10.3 Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous polymerization will not occur.

10.4 Conditions to Avoid

Avoid all possible sources of ignition (spark or flame).





10.5 Incompatible Materials

Reactive or incompatible with Oxidizing Materials

10.6 Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

11.2 Information on Toxicological Effects

Acute Toxicity Estimates	Route	ATE Value
Petroleum derived calcium salt	Oral	> 5000mg/kg
61789-86-4	Dermal	> 4000 mg/kg
	Inhalation (dusts and mists)	418.6 mg/l

Information on the likely routes of Routes of entry anticipated: Dermal, Inhalation. exposure

Potential Acute Health Effects

Inhalation Exposure to decomposition products may cause a health hazard.

Serious effects may be delayed following exposure.

Ingestion No known significant effects or critical hazards.

Skin Contact Defatting to the skin. May cause skin dryness and irritation.

Eye Contact No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation No specific data

Ingestion No specific data

MSDS: LUBREX VECTOR HD VG-680





Skin Contact Adverse symptoms may include irritation, dryness, cracking

Eye Contact No specific data

Delayed and immediate effects and Over exposure to the inhalation of airborne droplets or aerosols

also chronic effects from short and may cause irritation of the respiratory tract.

long term exposure

Inhalation/Ingestion Ingestion of large quantities may cause nausea and diarrhea.

Skin Contact Prolonged or repeated contact can defat the skin and lead to

irritation and/or dermatitis.

Potential Chronic Health Effects Potential risk of transient stinging or redness if accidental eye

contact occurs.

Carcinogenicity No know significant effects or critical hazards.

Mutagenicity No know significant effects or critical hazards.

Developmental Effects No know significant effects or critical hazards.

Fertility Effects No know significant effects or critical hazards.

SECTION 12: Ecological Information

12.1 Toxicity

Environmental Hazard Not classified as dangerous.

12.2 Persistence and Degradability

Partially biodegradable.

12.3 Bio Accumulative Potential

MSDS: LUBREX VECTOR HD VG-680 Page 13 of 18





This product is not expected to bio accumulate through food chains in the environment.

12.4 Mobility in Soil

Soil / Water partition coefficient

(KOC)

Not available

Spillages may penetrate the soil causing ground water

Mobility contamination

12.5 Result of PBT and vPVB Assessment

PBT Not applicable

vPVB Not applicable

12.6 Other Adverse Effects

Other ecological information Spills may form a film on water surfaces causing physical

damage to organisms. Oxygen transfer could also be impaired.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Methods of Disposal Where possible, arrange for product to be recycled. Dispose of

via an authorized person/ licensed waste disposal contractor in

accordance with local regulations.

Waste Code Waste Designation

13 02 08* Other engine, gear, and

lubricating oils

However, deviation from the intended use and/or the presence of an potential contaminants may require an alternative waste





disposal code to be assigned by the end user.

Packing

Methods of Disposal Where possible, arrange for product to be recycled. Dispose of

via an authorized person/ licensed waste disposal contractor in

accordance with local regulations.

Special Precautions This material and its container must be disposed of in a safe

way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact

with soil, waterways, drains and sewers.

SECTION 14: Transport Information

	ADR/RID	ADN	IMDG	IATA
14.1 UN Number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN Proper Shipping Name	-	-	-	-
14.3 Transport Hazard Class	-	-	-	-
14.4 Packing Group	-	-	-	-
14.5 Environmental Hazards	No	No	No	No
Additional Information	-	-	-	-
14.6 Special Precautions for User	Not available			

SECTION 15: Regulatory Information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization None of the components are listed

Substances of very high concern

Not applicable

Annex XVII - Restrictions on the manufacturer, placing on the market and use of certain dangerous





substances, mixtures and articles.

Other Regulations The company, as identified in Section 1,

REACH Status sells this product in the EU in compliance

with the

current requirements of REACH.

United States Inventory (TSCA 8b)

Australia Inventory (AICS) All components are listed or exempted.

Canada Inventory At least one component is not listed.

China Inventory (IECSC) At least one component is not listed.

Japan Inventory (ENCS) At least one component is not listed.

Korea Inventory (KECI) At least one component is not listed. Philippines Inventory (PICCS) At least one component is not listed.

At least one component is not listed.

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other Information

Abbreviations and Acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland

Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE = Acute Toxicity Estimate

BCF = Bio Concentration Factor

CAS = Chemical Abstracts Service

CLP = Classification, Labeling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

DPD = Dangerous Preparations Directive [1999/45/EC]

DSD = Dangerous Substances Directive [67/548/EEC]

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labeling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient





MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organization for Economic Co-operation and Development

PBT = Persistent, Bio Accumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SADT = Self-Accelerating Decomposition Temperature

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVCB = Complex hydrocarbon substance

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bio Accumulative

Full text of abbreviated H H 304 May be fatal if swallowed and

statements

H 413 May cause long lasting

Full text of classifications

harmful effects to aquatic life.

enters airways.

[CLP/GHS] Aquatic Chronic 4, H413

LONG-TERM AQUATIC HAZARD

HAZARD

Asp. Tox. 1, H304

- Category 4

ASPIRATION

Category 1

Full text of abbreviated R Phrases R53- May cause long-term adverse effects in the aquatic

environment.

Full text of classifications

[DSD/DPD] Not Applicable

History 01/01/2023

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Date of Revision Lubrex FZC

Prepared by

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MSDS: LUBREX VECTOR HD VG-680 Page 18 of 18