

SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations (SOR/2015-17)

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: VITROLIS MM PREMIUM

Other means of identification: For further information, please refer to section 9 of the SDS.

1.2 Recommended use and restriction on use

Recommended use: Lubricant

Restrictions on use: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier

FUCHS LUBRICANTS (UK) PLC.

New Century Street

ST1 5HU Hanley

Telephone:

+44 (0) 1782 203700

US Distributor

Fuchs Lubricants Co.

17050 Lathrop Avenue

Harvey, IL 60426

(708) 333-8900

(800) 255-3924 24 hrs Emergency

1.4 Emergency telephone number: +49 621 3701-0 (Mo - Fr 08:00 am - 04:00 pm, GMT + 1)

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The product has not been classified as hazardous and does not need to be labelled according to the legislation in force.

2.2 Label Elements

Not applicable

2.3 Other hazards:

By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

Unknown toxicity:

Due to information available product does not contain any ingredients of unknown toxicity.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

General information:

Mixture containing severely refined base oils and additives.

Chemical name	Identifier	Concentration (%w/w)	Notes
Base oil, naphthenic	64742-52-5	30.00 - 60.00	
Asphalt	8052-42-4	5.00 - 10.00	
Base oil paraffinic	64742-54-7	3.00 - 7.00	

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Sulphur	7704-34-9	1.00 - 5.00	
Base oil, low viscous	64742-65-0	0.10 - 1.00	

A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Identifier	Classification
Base oil, naphthenic	64742-52-5	
Asphalt	8052-42-4	
Base oil paraffinic	64742-54-7	
Sulphur	7704-34-9	Skin Irrit. 2;H315
Base oil, low viscous	64742-65-0	Asp. Tox. 1;H304

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Nota L/ Nota N of Annex VI of Regulation EC 1272/2008."

4 FIRST AID MEASURES

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Wash with soap and water.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed: May cause skin and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO₂, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added

Unsuitable extinguishing media: Water with a full water jet.

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| 5.2 Special hazards arising from the substance or mixture: | During fire, gases hazardous to health may be formed. |
| 5.3 Advice for firefighters
Special fire-fighting procedures: | Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains. |
| Special protective equipment for fire-fighters: | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |

SECTION 6: Accidental release measures

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| 6.1 Personal precautions, protective equipment and emergency procedures: | In case of spills, beware of slippery floors and surfaces. |
| 6.2 Environmental Precautions: | Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water. |
| 6.3 Methods and material for containment and cleaning up: | Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk. |
| 6.4 Reference to other sections: | See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal. |

SECTION 7: Handling and storage:

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| 7.1 Precautions for safe handling: | Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation. |
| 7.2 Conditions for safe storage, including any incompatibilities: | Local regulations concerning handling and storage of waterpolluting products have to be followed. Do not heat up to temperatures close to the flash point. |
| 7.3 Specific end use(s): | No data available. |

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Product name: VITROLIS MM PREMIUM

8.1.Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Base oil, naphthenic - Mist.	TWA	5 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
Base oil, naphthenic - Mist.	STEL	10 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
Base oil, naphthenic - Mist.	TWA	5 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
Base oil, naphthenic - Mist.	STEL	10 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
Base oil, naphthenic - Mist.	TWA	1 mg/m ³	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
Base oil, naphthenic - Mist.	STEL	10 mg/m ³	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
Base oil paraffinic - Mist.	TWA	5 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
Base oil paraffinic - Mist.	STEL	10 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
Base oil paraffinic - Mist.	TWA	5 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
Base oil paraffinic - Mist.	STEL	10 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
Base oil paraffinic - Mist.	TWA	1 mg/m ³	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
Base oil paraffinic - Mist.	STEL	10 mg/m ³	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
Base oil paraffinic - Inhalable fraction.	TWA	5 mg/m ³	Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 2016 ACGIH TLVs and BEIs Publication (New Brunswick Regulation 91-191), as amended (05 2022)
Base oil paraffinic - Mist.	TWA	5 mg/m ³	Canada. Alberta OELs (Occupational Health & Safety Code,

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			Schedule 1, Table 2), as amended (07 2009)
Base oil paraffinic - Mist.	STEL	10 mg/m ³	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Base oil paraffinic - Mist.	TWA	1 mg/m ³	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (05 2013)
Base oil paraffinic - Inhalable fraction.	TWA	5 mg/m ³	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2014)
Base oil paraffinic - Inhalable fraction.	TWA	5 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Base oil paraffinic	15 MIN ACL	10 mg/m ³	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
Base oil paraffinic - Inhalable dusts and mists.	TWA	5 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (04 2022)
Base oil, low viscous - Mist.	TWA	5 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
Base oil, low viscous - Mist.	STEL	10 mg/m ³	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
Base oil, low viscous - Mist.	TWA	5 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
Base oil, low viscous - Mist.	STEL	10 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
Base oil, low viscous - Mist.	TWA	1 mg/m ³	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
Base oil, low viscous - Mist.	STEL	10 mg/m ³	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended

8.2.Exposure controls

Appropriate engineering controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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Individual protection measures, such as personal protective equipment

General information:	Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.
Eye/face protection:	Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield.
Skin protection	
Hand Protection:	Material: Nitrile butyl rubber (NBR). Min. Breakthrough time: ≥ 480 min Recommended thickness of the material: ≥ 0.38 mm Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Other:	Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.
Respiratory Protection:	Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.
Thermal hazards:	No data available.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Environmental Controls:	No data available.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties**Appearance**

Physical state:	liquid
Form:	viscous
Color:	Black
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	Not applicable
Freezing point:	Not applicable for mixtures
Boiling Point:	Value not relevant for classification
Flash Point:	> 200 °C

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Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	Value not relevant for classification
Explosion Limit - Upper (%):	Not applicable for mixtures
Explosion Limit - Lower (%):	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Relative vapor density:	Not applicable for mixtures
Relative density:	0.95 g/cm ³ (15 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Auto-ignition temperature:	Value not relevant for classification
Decomposition Temperature:	Value not relevant for classification
Kinematic viscosity:	18,000 mm ² /s (20 °C)
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
9.2 Other information	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal use conditions.
10.2 Chemical Stability:	Stable under normal use conditions.
10.3 Possibility of hazardous reactions:	Stable under normal use conditions.
10.4 Conditions to avoid:	Stable under normal use conditions.
10.5 Incompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

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Acute toxicity**Oral****Product:**

Not classified for acute toxicity based on available data.

Specified substance(s)

Base oil, naphthenic LD 50 (Rat): > 5,001 mg/kg

Asphalt LD 50 (Rat): > 5,000 mg/kg

Base oil paraffinic LD 50 (Rat): > 5,000 mg/kg

Base oil, low viscous LD 50 (Rat): > 5,001 mg/kg (OECD 423)

Dermal**Product:**

Not classified for acute toxicity based on available data.

Specified substance(s)

Base oil, naphthenic LD 50 (Rabbit): > 5,001 mg/kg

Base oil paraffinic LD 50 (Rabbit): > 5,000 mg/kg

Base oil, low viscous LD 50 (Rabbit): > 5,001 mg/kg (OECD 402)

Inhalation**Product:**

Not classified for acute toxicity based on available data.

Specified substance(s)Base oil, naphthenic LC 50 (Rat, 4 h): > 5.53 mg/l
Dust and mistBase oil paraffinic LC 50 (Rat, 4 h): > 5.1 mg/l
Dust and mist

Sulphur LC 50 (Rat, 4 h): > 9.23 mg/l

Base oil, low viscous LC 50 (Rat, 4 h): > 5 mg/l (OECD 403)
Dust and mist**Skin Corrosion/Irritation:****Product:**

Based on available data, the classification criteria are not met.

Specified substance(s)

Base oil paraffinic OECD 404 Not irritant.

Base oil, low viscous OECD 404 Not irritant

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Serious Eye Damage/Eye Irritation:

Product: Based on available data, the classification criteria are not met.

Specified substance(s)

Base oil paraffinic OECD 405 Not irritant.

Base oil, low viscous OECD 405 Not irritating

Respiratory or Skin Sensitization:

Product: Skin sensitizer: Based on available data, the classification criteria are not met.

Respiratory sensitizer: Based on available data, the classification criteria are not met.

Specified substance(s)

Base oil paraffinic No sensitizing effect (guinea pig); OECD 406

Germ Cell Mutagenicity

Product: Based on available data, the classification criteria are not met.

Carcinogenicity

Product: Based on available data, the classification criteria are not met.

IARC: IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

NTP: US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogenic components identified

Reproductive toxicity

Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Product: Based on available data, the classification criteria are not met.

Aspiration Hazard

Product: Based on available data, the classification criteria are not met.

12 ECOLOGICAL INFORMATION

Product name: VITROLIS MM PREMIUM

General information: Not applicable

12.1 Toxicity

Acute toxicity

Product: Based on available data, the classification criteria are not met.

Fish

Specified substance(s)

Base oil, naphthenic	LC 50 (Fish, 96 h): > 101 mg/l
Asphalt	LC 50 (Fish, 96 h): > 1,000 mg/l
Base oil paraffinic	LC 50 (Fish, 96 h): > 100 mg/l
Sulphur	LC 50 (Fish, 96 h): 866 mg/l
Base oil, low viscous	LD 50 (Oncorhynchus mykiss, 96 h): > 101 mg/l (OECD 203)

Aquatic Invertebrates

Specified substance(s)

Base oil, naphthenic	EC 50 (Water Flea, 48 h): > 101 mg/l
Asphalt	EC 50 (Water Flea, 48 h): > 1,000 mg/l
Base oil paraffinic	EC 50 (Water Flea, 48 h): > 100 mg/l
Base oil, low viscous	EC 50 (Water Flea, 48 h): > 10,000 mg/l (OECD 202)

Chronic Toxicity

Product: Based on available data, the classification criteria are not met.

Fish

Specified substance(s)

Asphalt	NOEL (Fish, 28 d): > 1,000 mg/l
Base oil paraffinic	NOEL (Fish, 14 d): 1,000 mg/l

Aquatic Invertebrates

Specified substance(s)

Asphalt	NOEL (Water Flea, 21 d): > 1,000 mg/l
Base oil paraffinic	NOEL (Water Flea, 21 d): 10 mg/l
Base oil, low viscous	NOEC (Daphnia magna, 21 d): 10 mg/l (OECD 211)

Toxicity to Aquatic Plants

Specified substance(s)

Base oil, naphthenic	EC 50 (Alga, 72 h): > 101 mg/l
Asphalt	ErC50 (Alga, 72 h): > 1,000 mg/l
Base oil paraffinic	NOEC (Alga, 72 h): > 100 mg/l

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Base oil, low viscous EC 50 (Alga, 72 h): > 101 mg/l (OECD 201)

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

Specified substance(s)
Base oil, naphthenic Inherently biodegradable

Base oil paraffinic 31 % (28 d)

Base oil, low viscous 31 % (28 d, OECD 301F) Not readily degradable.

12.3 Bioaccumulative potential

Product: Not applicable for mixtures

12.4 Mobility in soil:

Product: Not applicable for mixtures

12.5 Results of PBT and vPvB assessment: The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other adverse effects: No data available.

13 Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.

14 TRANSPORT INFORMATION

IMDG - International Maritime Dangerous Goods Code

Not Regulated.

IATA

Not Regulated.

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

15 REGULATORY INFORMATION

Inventory Status

DSL	On or in compliance with the inventory
NDSL	Not in compliance with the inventory.
TSCA	On or in compliance with the inventory

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16 OTHER INFORMATION

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.

Revision Date: 20.08.2024

Disclaimer: The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.