

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: MB 229.5 0W-40 USCAN

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.

Canadian Distributor
Company Name: FUCHS LUBRICANTS
CANADA LTD.
Address: 405 Dobbie Drive
Cambridge, ON N1T 1S8
Telephone: 519-622-2040
Fax: 519-622-2220
Contact Person: Technical Services
Department
Emergency telephone number:
519-622-2040 (Bus. hrs)
CANUTEC 1-888-226-8832 (24 hrs)

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

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 been classified and labelled as hazardous according to the legislation in force.

Health Hazards

Specific Target Organ Toxicity - Repeated Exposure Category 2

2.2 Label Elements



Signal Words: Warning

Hazard Statement(s): H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention: P260: Do not breathe dust/fume/gas/mist/vapors/spray.

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Response: P314: Get medical advice/attention if you feel unwell.**Disposal:** P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.**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.**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 paraffinic | 64742-54-7 | 30.00 - 60.00 | |
| Hydrocarbons, low viscous | 68037-01-4 | 10.00 - 30.00 | |
| ZnDTP | 28629-66-5 | 0.50 - 1.50 | |
| Alkyl phenol, long chain | 1190625-94-5 | 0.50 - 1.50 | |

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 paraffinic | 64742-54-7 | Asp. Tox. 1;H304 |
| Hydrocarbons, low viscous | 68037-01-4 | Asp. Tox. 1;H304 |
| ZnDTP | 28629-66-5 | Eye Dam. 1;H318, Skin Irrit. 2;H315, Aquatic Chronic 2;H411 |
| Alkyl phenol, long chain | 1190625-94-5 | Skin Sens. 1B;H317, STOT RE 2;H373 |

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.

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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.

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

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.

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| 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: | Do not heat up to temperatures close to the flash point. |
| 7.3 Specific end use(s): | No data available. |

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| 8 EXPOSURE CONTROLS / PERSONAL PROTECTION |
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8.1.Exposure Limits

| Chemical name | Type | Exposure Limit Values | Source |
|--|------------|-----------------------|---|
| 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, 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 |

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|-------------------------------|------|----------------------|---|
| | | | 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 |
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| 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 |
| 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 |
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| 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 |
| base oil - Mist. | TWA | 5 mg/m ³ | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended |
| base oil - Mist. | STEL | 10 mg/m ³ | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended |
| base oil - Mist. | TWA | 5 mg/m ³ | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended |
| base oil - Mist. | STEL | 10 mg/m ³ | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended |
| base oil - Mist. | TWA | 1 mg/m ³ | Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as |

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| | | | |
|------------------|------|----------------------|--|
| base oil - Mist. | STEL | 10 mg/m ³ | amended 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.

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

Product name: MB 229.5 0W-40 USCAN

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

| | |
|---|---|
| Physical state: | liquid |
| Form: | liquid |
| Color: | Brown |
| Odor: | Characteristic |
| Odor Threshold: | Not applicable for mixtures |
| pH: | substance/mixture is non-soluble (in water) |
| Freezing point: | Not applicable for mixtures |
| Boiling Point: | Value not relevant for classification |
| Flash Point: | 228 °C |
| 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: | 0.84 g/ml (15.00 °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: | 76.71 mm ² /s (40.00 °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

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|---|---|
| 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

Product name: MB 229.5 0W-40 USCAN

Information on likely routes of exposure

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

Acute toxicity**Oral**

| | |
|-------------------------------|----------------------------|
| Product: | ATEmix: 261,929.64 mg/kg |
| Specified substance(s) | |
| Base oil paraffinic | LD 50 (Rat): > 5,000 mg/kg |
| Hydrocarbons, low viscous | LD 50 (Rat): > 5,000 mg/kg |
| ZnDTP | LD 50 (Rat): 3,760 mg/kg |

Dermal

| | |
|-------------------------------|--|
| Product: | Not classified for acute toxicity based on available data. |
| Specified substance(s) | |
| Base oil paraffinic | LD 50 (Rabbit): > 5,000 mg/kg |
| ZnDTP | LD 50 (Rabbit): > 5,000 mg/kg |

Inhalation

| | |
|-------------------------------|--|
| Product: | Not classified for acute toxicity based on available data. |
| Specified substance(s) | |
| Hydrocarbons, low viscous | LC 50 (Rat, 4 h): > 5 mg/l 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. |

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. |

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Respiratory or Skin Sensitization:

Product: Experimental data has shown that the concentration of potentially sensitizing components present in this product does not induce skin sensitization.

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 met.

Aspiration Hazard

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

Specified substance(s)

Base oil paraffinic May be fatal if swallowed and enters airways.

12 ECOLOGICAL INFORMATION

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 paraffinic LC 50 (Fish, 96 h): > 100 mg/l

Hydrocarbons, low viscous LC 50 (Fish, 96 h): > 750 mg/l

ZnDTP LC 50 (Fish, 96 h): 3.8 mg/l

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Aquatic Invertebrates**Specified substance(s)**

Base oil paraffinic EC 50 (Water Flea, 48 h): > 100 mg/l

Hydrocarbons, low
viscous EC 50 (Water Flea, 48 h): 190 mg/l

ZnDTP EC 50 (Water Flea, 48 h): 6.8 mg/l

Chronic Toxicity**Product:** Based on available data, the classification criteria are not met.**Fish****Specified substance(s)**

ZnDTP NOEC (Fish, 4 d): 1.8 mg/l

Aquatic Invertebrates**Specified substance(s)**

Base oil paraffinic NOEC (Daphnia magna, 21 d): 10 mg/l (OECD 211)

ZnDTP NOEC (Water Flea, 21 d): 0.4 mg/l

Toxicity to Aquatic Plants**Specified substance(s)**

Base oil paraffinic EC 50 (Algae, 72 h): > 100 mg/l (OECD 201)

Hydrocarbons, low
viscous EC 50 (Alga, 72 h): > 1,000 mg/l

ZnDTP EC 50 (Alga, 72 h): 240 mg/l

12.2 Persistence and Degradability**Biodegradation****Product:** Not applicable for mixtures**Specified substance(s)**

Base oil paraffinic 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.

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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

TDG

Not Regulated.

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 |
| TSCA | On or in compliance with the inventory |

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. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |

Revision Date: 22.08.2024

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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.