

SAFETY DATA SHEET NEW ZEALAND

1/10

W & H Service Oil F1 MD 500 STANDARD

Version: 3.2
Revision Date: 03.12.2018
Print Date: 15.03.2019
Date of last issue: 29.05.2018
Date of first issue: 20.12.2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : W & H Service Oil F1 MD 500 STANDARD
Article-No.: 028119

Recommended use of the chemical and restrictions on use

Recommended use: Lubricating oil
Restrictions on use: Restricted to professional users.

Manufacturer or supplier's details

Company name of supplier: Klüber Lubrication München
Geisenhausenerstr. 7
81379 München
Deutschland
Tel: +49 (0) 89 7876 0
Fax: +49 (0) 89 7876 333
info@klueber.com
E-mail address: mcm@klueber.com
Material Compliance Management

New Zealand contact: Ivoclar Vivadent Ltd.
12 Omega Street
North Shore City Albany
Auckland 0632
New Zealand
Tel: +64 914 9999
E-mail: orders.nz@ivoclarvivadent.com

Emergency telephone number: National Poison Centre New Zealand)
0800 764 766 (24hrs)

Australia contact: Klüber Lubrication Australia Pty. Ltd.
1st Floor, 3 Brand Drive
P.O. Box 4
Thomastown Victoria 3074 (Melbourne)
Australia
Tel: +61 3 9464 7577
Fax: +61 3 9464 7588
kluber.mel@au.klueber.com

SAFETY DATA SHEET

2/10

W & H Service Oil F1 MD 500 STANDARD

Version: 3.2
Revision Date: 03.12.2018
Print Date: 15.03.2019
Date of last issue: 29.05.2018
Date of first issue: 20.12.2012

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Not a hazardous substance or mixture.
GHS label elements Not a hazardous substance or mixture.
Other hazards which do not result in classification None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature: Synthetic hydrocarbon oil
Ester oil

Hazardous components

Chemical name CAS-No. Concentration (% w/w)
Dec-1-ene, dimers, hydrogenated 68649-11-6 $\geq 1 - < 10$

SECTION 4. FIRST AID MEASURES

If inhaled: Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact: Remove contaminated clothing. If irritation develops, get medical attention.
In case of contact, immediately flush skin with plenty of water.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
If eye irritation persists, consult a specialist.

If swallowed: Move the victim to fresh air.
Do NOT induce vomiting.
Rinse mouth with water.

Most important symptoms and effects, both acute and delayed: No information available.
None known.

Notes to physician: No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media: High volume water jet

SAFETY DATA SHEET

3/10

W & H Service Oil F1 MD 500 STANDARD

Version: 3.2
Revision Date: 03.12.2018
Print Date: 15.03.2019
Date of last issue: 29.05.2018
Date of first issue: 20.12.2012

Specific hazards during firefighting:

Fire may cause evolution of: Carbon oxides
Specific extinguishing methods: Standard procedure for chemical fires.
Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

In the case of respirable dust and/or fumes, use self-contained breathing apparatus.

Exposure to decomposition products may be a hazard to health.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Evacuate personnel to safe areas.

Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions:

Try to prevent the material from entering drains or water courses.

Prevent further leakage or spillage if safe to do so.

Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling: For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Wash hands and face before breaks and immediately after handling the product.

Hygiene measures: Wash face, hands and any exposed skin thoroughly after handling.

Conditions for safe storage: Store in original container.

Keep container closed when not in use.

Keep in a dry, cool and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store in accordance with the particular national regulations.

Keep in properly labelled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Maintain air concentrations below occupational exposure standards.

SAFETY DATA SHEET

4/10

W & H Service Oil F1 MD 500 STANDARD

Version: 3.2
Revision Date: 03.12.2018
Print Date: 15.03.2019
Date of last issue: 29.05.2018
Date of first issue: 20.12.2012

Personal protective equipment

Respiratory protection : Not required; except in case of aerosol formation.
Filter type : Filter type A-P
Hand protection Material : Nitrile rubber
Protective index : Class 1
Remarks : For prolonged or repeated contact use protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.
Eye protection : Safety glasses with side-shields conforming to EN166
Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Colour: yellow
Odour: characteristic
Odour Threshold: No data available

The data/values refer to the main component:

pH: No data available
Melting point/range: No data available
Boiling point/boiling range: No data available
Flash point: > 200 °C
Method: ISO 2592, open cup
Evaporation rate: No data available
Flammability (solid, gas): Not applicable
Upper explosion limit: No data available
Lower explosion limit: No data available
Vapour pressure : < 0.17 hPa (20 °C)
Relative vapour density: No data available
Density: 0.84 g/cm³ (20 °C)
Bulk density: No data available

Solubility(ies)

Water solubility: insoluble
Solubility in other solvents: No data available
Partition coefficient: noctanol/water: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available

SAFETY DATA SHEET

5/10

W & H Service Oil F1 MD 500 STANDARD

Version: 3.2
Revision Date: 03.12.2018
Print Date: 15.03.2019
Date of last issue: 29.05.2018
Date of first issue: 20.12.2012

Viscosity

Viscosity, dynamic: No data available
Viscosity, kinematic: 22 mm²/s (40 °C)
Explosive properties: Not explosive
Oxidizing properties: No data available
Sublimation point: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity: No hazards to be specially mentioned.
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to avoid: No conditions to be specially mentioned.
Incompatible materials: No materials to be especially mentioned.
Hazardous decomposition products: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity Product: Acute oral toxicity
Remarks: This information is not available.
Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method
Acute dermal toxicity : Remarks: This information is not available.

Components:

Dec-1-ene, dimers, hydrogenated:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Acute inhalation toxicity : LC50 (Rat): 1.17 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Acute dermal toxicity : LD50 (Rabbit): > 3,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Product: Remarks: This information is not available.

Components:

Dec-1-ene, dimers, hydrogenated:

Species: Rabbit
Assessment: No skin irritation
Method: OECD Test Guideline 404
Result: No skin irritation

SAFETY DATA SHEET

6/10

W & H Service Oil F1 MD 500 STANDARD

Version: 3.2
Revision Date: 03.12.2018
Print Date: 15.03.2019
Date of last issue: 29.05.2018
Date of first issue: 20.12.2012

Serious eye damage/eye irritation

Product:

Remarks: This information is not available.

Components:

Dec-1-ene, dimers, hydrogenated:

Species: Rabbit
Result: No eye irritation
Assessment: No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Remarks: This information is not available.

Components:

Dec-1-ene, dimers, hydrogenated:

Test Type: Maximisation Test
Species: Guinea pig
Assessment: Does not cause skin sensitisation.
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.
GLP: yes

Chronic toxicity

Germ cell mutagenicity

Product:

Genotoxicity in vitro:
Remarks: No data available

Genotoxicity in vivo :
Remarks: No data available

Carcinogenicity

Product:

Remarks: No data available

Reproductive toxicity

Product:

Effects on fertility product
Remarks: No data available

Effects on foetal development
Remarks: No data available

Repeated dose toxicity

Product:

Remarks: This information is not available.

Aspiration toxicity

Product:

This information is not available.

Components:

Dec-1-ene, dimers, hydrogenated:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Information given is based on data on the components and the toxicology of similar

SAFETY DATA SHEET

7/10

W & H Service Oil F1 MD 500 STANDARD

Version: 3.2
Revision Date: 03.12.2018
Print Date: 15.03.2019
Date of last issue: 29.05.2018
Date of first issue: 20.12.2012

products.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Product:

Toxicity to fish
Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates
Remarks: No data available
Toxicity to algae
Remarks: No data available
Toxicity to bacteria
Remarks: No data available

Components:

Dec-1-ene, dimers, hydrogenated:

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes
Toxicity to daphnia and other aquatic invertebrates
EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h
Test Type: Immobilization
Method: OECD Test Guideline 202
GLP: yes
Toxicity to algae: EC50 (Scenedesmus capricornutum (fresh water algae)): >1,000mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
NOEC (Daphnia magna (Water flea)): 125 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
GLP: yes

Persistence and degradability

Product:

Biodegradability
Remarks: No data available
Physico-chemicalremovability
Remarks: No data available

Components:

Dec-1-ene, dimers, hydrogenated:

Biodegradability : Result: Not rapidly biodegradable

SAFETY DATA SHEET

8/10

W & H Service Oil F1 MD 500 STANDARD

Version: 3.2
Revision Date: 03.12.2018
Print Date: 15.03.2019
Date of last issue: 29.05.2018
Date of first issue: 20.12.2012

Bioaccumulative potential

Product:

Bioaccumulation

Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Components:

Dec-1-ene, dimers, hydrogenated:

Partition coefficient: noctanol/water: log Pow: > 6.5

Mobility in soil

Product:

Mobility

Remarks: No data available

Distribution among environmental compartments

Remarks: No data available

Other adverse effects

Product:

Additional ecological information: No information on ecology is available.

Components:

Dec-1-ene, dimers, hydrogenated:

Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues: The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging: Packaging that is not properly emptied must be disposed of as the unused product.

Dispose of waste product or used containers according to local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations UNRTDG Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

Environmentally hazardous: no

IMDG-Code Not regulated as a dangerous good

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

Not applicable for product as supplied.

National Regulations ADG Not regulated as a dangerous good

Remarks : No special precautions required.

SAFETY DATA SHEET

9/10

W & H Service Oil F1 MD 500 STANDARD

Version: 3.2
Revision Date: 03.12.2018
Print Date: 15.03.2019
Date of last issue: 29.05.2018
Date of first issue: 20.12.2012

SECTION 15. REGULATORY INFORMATION

Standard for the Uniform

Scheduling of Medicines and Poisons:

No poison schedule number allocated

Prohibition/Licensing Requirements:

There is no applicable prohibition or notification/licensing requirements, including for carcinogens under

Commonwealth, State or Territory legislation.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances;
ANTT - National Agency for Transport by Land of Brazil;
ASTM - American Society for the Testing of Materials;
bw - Body weight;
CMR -Carcinogen, Mutagen or Reproductive Toxicant;
CPR - Controlled Products Regulations; DIN -
Standard of the German Institute for Standardisation;
DSL - Domestic Substances List (Canada);
ECx - Concentration associated with x% response;
ELx - Loading rate associated with x% response;
EmS - Emergency Schedule;
ENCS - Existing and New Chemical Substances (Japan);
ErCx - Concentration associated with x% growth rate response;
ERG - Emergency Response Guide;
GHS - Globally Harmonized System;
GLP - Good Laboratory Practice;
IARC - International Agency for Research on Cancer;
IATA - International Air Transport Association;
IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;
IC50 - Half maximal inhibitory concentration;
ICAO - International Civil Aviation Organization;
IECSC - Inventory of Existing Chemical Substances in China;
IMDG – International Maritime Dangerous Goods;
IMO - International Maritime Organization;
ISHL - Industrial Safety and Health Law (Japan);
ISO - International Organisation for Standardization;
KECI – Korea Existing Chemicals Inventory;
LC50 - Lethal Concentration to 50 % of a test population;
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose);
MARPOL – International Convention for the Prevention of Pollution from Ships;
n.o.s. - Not Otherwise Specified;
Nch - Chilean Norm;
NO(A)EC - No Observed (Adverse) Effect Concentration;
NO(A)EL - No Observed (Adverse) Effect Level;
NOELR - No Observable Effect Loading Rate;

SAFETY DATA SHEET

10/10

W & H Service Oil F1 MD 500 STANDARD

Version: 3.2
Revision Date: 03.12.2018
Print Date: 15.03.2019
Date of last issue: 29.05.2018
Date of first issue: 20.12.2012

NOM - Official Mexican Norm;
NTP - National Toxicology Program;
NZIoC - New Zealand Inventory of Chemicals;
OECD - Organization for Economic Co-operation and Development;
OPPTS - Office of Chemical Safety and Pollution Prevention;
PBT - Persistent, Bioaccumulative and Toxic substance;
PICCS - Philippines Inventory of Chemicals and Chemical Substances;
(Q)SAR - (Quantitative) Structure Activity Relationship;
REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals;
SADT - Self-Accelerating Decomposition Temperature;
SDS - Safety Data Sheet;
TCSI – Taiwan Chemical Substance Inventory;
TDG - Transportation of Dangerous Goods;
TSCA - ToxicSubstances Control Act (United States);
UN - United Nations;
UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;
vPvB - Very Persistent and Very Bioaccumulative;
WHMIS - Workplace Hazardous Materials Information System
Date format: dd.mm.yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety data sheet applies only to products originally packed and labelled by KLÜBER LUBRICATION. The information contained therein may not be reproduced or modified without the express written permission of KLÜBER LUBRICATION. Any forwarding of this document is only permitted to the extent required by law. Any further, in particular public, dissemination of our safety data sheets (e.g. as a document for download from the Internet) is not permitted without the express written consent of KLÜBER LUBRICATION. KLÜBER LUBRICATION provides its customers with amended safety data sheets as prescribed by law. The customer is responsible for passing on safety data sheets and any amendments contained therein to its own customers, employees and other users of the product. KLÜBER LUBRICATION provides no guarantee that safety data sheets received by users from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship.