

## W & H Service Oil F1 MD 500

Version 2.0

Revision Date 08.07.2016

Print Date 08.07.2016

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name : W & H Service Oil F1 MD 500  
Article-No. : 028073

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

Use of the Substance/Mixture : Lubricating oil  
Recommended restrictions on use : Restricted to professional users.

#### 1.3 Details of the supplier of the safety data sheet

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  
Responsible/issuing person : Material Compliance Management

National contact : Klüber Lubrication Benelux S.A./N.V.  
Rue Cardinal Mercier 100  
7711 Dottignies  
Belgium  
+32-56-483311  
Fax: +32-56-483380  
kluber@be.klueber.com

#### 1.4 Emergency telephone number

+49 89 7876 700 (24 hrs)

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### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**Classification (67/548/EEC, 1999/45/EC)**

Not a hazardous substance or mixture.

#### 2.2 Label elements

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### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

### Additional Labelling:

EUH210 Safety data sheet available on request.

### 2.3 Other hazards

## 3. Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Synthetic hydrocarbon oil  
ester oil

### Hazardous components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Dec-1-ene, dimers, hydrogenated	68649-11-6	Xn; R20 Xn; R65	Acute Tox. 4; H332 Asp. Tox. 1; H304	>= 1 - < 10

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. First aid measures

### 4.1 Description of first aid measures

- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with soap and plenty of water.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- 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.  
If unconscious place in recovery position and seek medical advice.  
Keep respiratory tract clear.

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Do NOT induce vomiting.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : None known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

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## 5. Firefighting measures

### 5.1 Extinguishing media

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

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Fire may cause evolution of:  
Carbon oxides

### 5.3 Advice for firefighters

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.

Further information : Standard procedure for chemical fires.

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## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Do not breathe vapours or spray mist. Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

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.

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### 6.3 Methods and materials for containment and cleaning up

Methods for 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).

### 6.4 Reference to other sections

For personal protection see section 8.

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## 7. Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours or spray mist.  
Avoid contact with skin and eyes.  
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.  
Do not get in eyes or mouth or on skin.  
Do not get on skin or clothing.  
Do not ingest.  
Do not repack.  
Do not re-use empty containers.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Keep container closed when not in use.  
Avoid inhalation of vapour or mist.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : 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.

### 7.3 Specific end use(s)

: Consult the technical guidelines for the use of this substance/mixture.

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## 8. Exposure controls/personal protection

### 8.1 Control parameters

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Contains no substances with occupational exposure limit values.

### DNEL

Dec-1-ene, dimers,  
hydrogenated : End Use: Industrial use  
Exposure routes: Inhalation  
Potential health effects: Acute systemic effects  
Value: 60 mg/m<sup>3</sup>

## 8.2 Exposure controls

### Engineering measures

Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

- Respiratory protection : Not required; except in case of aerosol formation.  
Filter type A-P
- Hand protection : 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.  
In case of contact through splashing:  
  
: Nitrile rubber  
Protective index Class 1
- Eye protection : Safety glasses with side-shields conforming to EN166
- Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.
- 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.

### Environmental exposure controls

- General advice : 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.

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### 9. Physical and chemical properties

The data/values refer to the main component:

#### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: yellow
Odour	: characteristic
Odour Threshold	: No data available
pH	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: > 200 °C, Test Method: open cup, ISO 2592
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: < 0,17 hPa, 20 °C
Relative vapour density	: No data available
Density	: 0,84 g/cm <sup>3</sup> , 20 °C
Water solubility	: insoluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: 22 mm <sup>2</sup> /s, 40 °C
Explosive properties	: Not explosive
Oxidizing properties	: No data available

#### 9.2 Other information

Sublimation point	: No data available
Bulk density	: No data available

### 10. Stability and reactivity

#### 10.1 Reactivity

None reasonably foreseeable.

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### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : No conditions to be specially mentioned.

### 10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if stored and applied as directed.

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## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Product

- Acute oral toxicity : This information is not available.
- Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l, 4 h, dust/mist, Calculation method
- Acute dermal toxicity : This information is not available.
- Skin corrosion/irritation : This information is not available.
- Serious eye damage/eye irritation : This information is not available.
- Respiratory or skin sensitisation : This information is not available.
- Germ cell mutagenicity
- Genotoxicity in vitro : No data available
- Genotoxicity in vivo : No data available
- Carcinogenicity : No data available
- Reproductive toxicity : No data available
- Teratogenicity : No data available
- Repeated dose toxicity : This information is not available.
- Aspiration toxicity : This information is not available.
- Further information : Information given is based on data on the components and the toxicology of similar products.

#### Components:

##### **Dec-1-ene, dimers, hydrogenated :**

Acute oral toxicity : LD50: > 5.000 mg/kg, Rat, OECD Test Guideline 401, GLP: yes

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Acute inhalation toxicity	: LC50: 1,17 mg/l, 4 h, Rat, dust/mist, OECD Test Guideline 403, GLP: yes
Acute dermal toxicity	: LD50: > 3.000 mg/kg, Rabbit, OECD Test Guideline 402, The substance or mixture has no acute dermal toxicity
Skin corrosion/irritation	: Rabbit, Result: No skin irritation, Classification: No skin irritation, OECD Test Guideline 404
Serious eye damage/eye irritation	: Rabbit, Result: No eye irritation, Classification: No eye irritation, OECD Test Guideline 405
Respiratory or skin sensitisation	: Maximisation Test (GPMT), Guinea pig, Result: Does not cause skin sensitisation., Classification: Does not cause skin sensitisation., OECD Test Guideline 406, GLP: yes
Aspiration toxicity	: May be fatal if swallowed and enters airways.

## 12. Ecological information

### 12.1 Toxicity

#### Product:

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

#### Components:

##### **Dec-1-ene, dimers, hydrogenated :**

Toxicity to fish	: LC50: > 1.000 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout), semi-static test, OECD Test Guideline 203, GLP: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50: > 1.000 mg/l, 48 h, Daphnia magna (Water flea), Immobilization, OECD Test Guideline 202, GLP: yes
Toxicity to algae	: EC50: > 1.000 mg/l, 72 h, Scenedesmus capricornutum (fresh water algae), static test, OECD Test Guideline 201, GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 125 mg/l, 21 d, Daphnia magna (Water flea), OECD Test Guideline 211, GLP: yes

### 12.2 Persistence and degradability

#### Product:

Biodegradability	: No data available
Physico-chemical	: No data available



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removability

### **Components:**

#### **Dec-1-ene, dimers, hydrogenated :**

Biodegradability : Result: Not rapidly biodegradable

### 12.3 Bioaccumulative potential

#### **Product:**

Bioaccumulation : 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).

### 12.4 Mobility in soil

#### **Product:**

Mobility : No data available

Distribution among environmental compartments : No data available

### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **Components:**

#### **Dec-1-ene, dimers, hydrogenated :**

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).

### 12.6 Other adverse effects

#### **Product:**

Additional ecological information : No information on ecology is available.

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## 13. Disposal considerations

### 13.1 Waste treatment methods

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

: Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging : Empty containers can be landfilled, when in accordance with the local regulations.

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### 14. Transport information

#### 14.1 UN number

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.2 Proper shipping name

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.3 Transport hazard class

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.4 Packing group

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.5 Environmental hazards

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.6 Special precautions for user

No special precautions required.

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

Remarks : Not applicable for product as supplied.

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### 15. Regulatory information

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

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REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
Major Accident Hazard Legislation	:	96/82/EC Update: Not applicable

### 15.2 Chemical Safety Assessment

This information is not available.

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## 16. Other information

### Full text of R-phrases referred to under sections 2 and 3

R20	Harmful by inhalation.
R65	Harmful: may cause lung damage if swallowed.

### Full text of H-Statements referred to under sections 2 and 3.

H304	May be fatal if swallowed and enters airways.
H332	Harmful if inhaled.

### Further information

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