

SAFETY DATA SHEETS

This SDS packet was issued with item:

071030717

N/A

Kluber Lubrication Munchen KG

Patterson Dental Supply Product Code:
030725,71030717

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: W & H Service Oil
Manufacturer Name: Kluber Lubrication Munchen KG
Address:

GeisenhausenerstraBe 7
D-81379 Munchen

Emergency telephone no.: ++49-89-7876-0
Business Phone: ++49-89-7876-0 telephone exchange
Business Fax: ++49-89-7876-333
For information in North America, call: ++49-89-7876-0 telephone exchange
Manufacturer MSDS Revision Date: 29.8.1997

Safety Data Sheet conformable to EC directive 91/155 EEC

Product Codes:
028073

SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

Composition/Information:
Chemical characterization: (preparation)
synthetic hydrocarbon oil, ester oil

Additional information: None

SECTION 3 : HAZARDS IDENTIFICATION

No particular hazards known.

SECTION 4 : FIRST AID MEASURES

Eye Contact:
Rinse with plenty of water.
Skin Contact:
Wash off with soap and plenty of water.
Inhalation:

Not applicable
Ingestion:
Do not induce vomiting. Obtain medical attention.
Note to Physicians:
Treat symptomatically. If swallowed or in the event of vomiting,
risk of product entering the lungs.

SECTION 5 : FIRE FIGHTING MEASURES

Fire:
Advice on protection against fire and explosion:
No special precautions required.
Flash Point:
Approx. 200 deg C
Flash Point Method:
DIN ISO 2592
Upper Flammable or Explosive Limit:
Not applicable
Lower Flammable or Explosive Limit:
Not applicable
Auto Ignition Temperature:
Not applicable deg C; Not applicable deg F
Extinguishing Media:
Water spray, foam, dry powder, carbon dioxide (CO2)
Unsuitable Media:
High volume water jet
Fire Fighting Equipment:
Standard procedure for chemical fires.
Additional Information:
Water mist may be used to cool closed containers. In the event of
fire and/or explosion do not breathe fumes.

Special hazards:
In case of fire the following can be released: Carbon monoxide,
hydrocarbons

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Risk of slipping due to leakage/spillage of product.
Spill Cleanup Measures:
Soak up with inert absorbent material (e.g. sand, silica gel, acid
binder, universal binder, sawdust). Dispose of absorbed material in
accordance with the regulations.
Environmental Precautions:
Do not flush into surface water or sanitary sewer system.

Additional information:
None

SECTION 7 : HANDLING and STORAGE

Handling:

Advice on safe handling:
Avoid formation of aerosol.

Storage:

Requirements on storage rooms and vessels:
No special storage conditions required

Incompatible materials:

Incompatible with oxidizing agents.

Further information on storage conditions:

Store at room temperature in the original container.

Advice on protection against fire and explosion:
No special precautions required.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

Hand Protection Description:

No special protective equipment required.

Eye/Face Protection:

No special protective equipment required.

Protective Clothing/Body Protection:

No special protective equipment required.

Respiratory Protection:

No special protective equipment required.

Other Protective:

No special protective equipment required.

Additional advice on system design: not applicable

Ingredients and specific control parameters: None

General protection and hygiene measures:

Clean skin thoroughly after work; apply skin cream.
Do not inhale aerosol.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:

Liquid

Color:

Colourless

Odor:

Mint-like

Vapor Pressure:

First: Not applicable

Solubility:

Water solubility: Insoluble

Density:

Approx 0.84 g/cm³, 20 deg C

Test Method: DIN 51757
Viscosity:
Kinematic: approx. 15 mm²/s, 40 deg C
Test Method: DIN 51562
Pour Point:
Test method: DIN ISO 3016
Flashpoint:
Approx. 200 deg C
Auto Ignition Temp:
Not applicable deg C; Not applicable deg F
Upper Flammable Explosive Limit:
Not applicable
Lower Flammable Explosive Limit:
Not applicable

Flash point: approx. 200 deg C
Test method: DIN ISO 2592

Ignition temperature: Not applicable deg C; Not applicable F

Explosive properties:
Lower explosion limit: Not applicable
Upper explosion limit: Not applicable

Further information: None

SECTION 10 : STABILITY AND REACTIVITY

Conditions to Avoid:
Do not heat above flash point.
Incompatibilities with Other Materials:
Materials to avoid: strong oxidizing agents
Hazardous Decomposition Products:
None under normal use.

Additional information:
None

SECTION 11 : TOXICOLOGICAL INFORMATION

Applies to All Ingredients:
Ingestion Effects:
LD50/oral/rat = > 2 g/kg (literature data)
Chronic Effects:
None
Other Toxicological Information:
Human experience: Health injuries are not known or expected under normal use.
Toxicological Paragraph:
The toxicological data has been taken from products of similar composition.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

The product has not been tested.

Effect of Material On Aquatic Life:

Aquatic toxicity is unlikely due to low solubility.

Information on elimination (persistence and degradability):
Product is insoluble in water. May be separated out mechanically in purification plants.

Behaviour in environmental compartments:

Ecological injuries are not known or expected under normal use.

Additional information:

Should not be released into the environment.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:

Dispose of in accordance with your local, state and federal regulations as used oil for reconditioning.

Dispose of contaminated packaging and recommended cleaning:
Offer rinsed packaging material to local recycling facilities.

SECTION 14 : TRANSPORT INFORMATION

IATA:

IATA-DGR: not applicable

Maritime Transportation CGVS/GGVE/IMDG: Code: not applicable

Land transport:

GGVS/GGVE: not applicable

Inland waterways transport:

ADN/ADNR: not applicable

Air transport:

ICAO: not applicable

Further information:

Not classified as dangerous in the meaning of transport regulations.

SECTION 15 : REGULATORY INFORMATION

Applies to all ingredients:
European Community Chemical Inventory Status:
Conformable to EC directive 91/155 EEC

Labelling according to EU-guidelines:
The product does not require a hazard warning label in accordance
with EC directives/German regulations on dangerous substances.

All components are accepted by LMBG (Germany) and/or FDA (USA).

SECTION 16 : ADDITIONAL INFORMATION

MSDS Revision Date:
29.8.1997

Disclaimer:

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 if the material is used in combination with any other materials or if it is processed, unless specified in the text.

Issue-department of safety Data Sheet: Chemical Documentation.
Tel.: +19-89-7876-564

Safety Data Sheet conformable to EC directive 91/155 EEC



Product name: W & H Service Oil MD 400 Spray F1

Date: 24.7.2000

Revision date: 1.3.2000

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1. Identification of the substance/preparation and of the company

Product name: W & H Service Oil MD 400 Spray F1

Code-No.: 081250

Company: Klüber Lubrication München KG
Geisenhausenerstraße 7
D-81379 München

Telephone: ++49 - 89 - 7876 - 0 telephone exchange

Telefax: ++49 - 89 - 7876 - 333

Emergency telephone no.: ++49 - 89 - 7876 - 0

2. Composition/information on ingredients

Chemical characterization : (preparation)

ester oil, synthetic hydrocarbon oil, solvent : hydrocarbons, propellant : propane-butane

Hazardous ingredients

CAS-No	Components	Value	Symbols	R-phrases
74-98-6	propane-		F+	12
106-97-8	butane	~ 40 %	F+	12

3. Hazards Identification

F+ - Extremely flammable

No further particular hazards known.

4. First aid measures

After inhalation

Move to fresh air. If symptoms persist, call a physician.

After contact with skin

Wash off with soap and plenty of water.

After contact with eyes

Rinse with plenty of water.

After ingestion

Do not induce vomiting. Obtain medical attention.

Safety Data Sheet conformable to EC directive 91/155 EEC



Product name: W & H Service Oil MD 400 Spray F1

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Advice to doctor

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

water spray, foam, dry powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

high volume water jet

Special hazards

In case of fire the following can be released: Carbon monoxide, Hydrocarbons

Special protective equipment for firefighters

Standard procedure for chemical fires.

Additional information

In the event of fire and/or explosion do not breathe fumes. Water mist may be used to cool closed containers.

6. Accidental release measures

Personal precautions

Ensure adequate ventilation. Remove all sources of ignition

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up/taking up

Use mechanical handling equipment. Dispose of absorbed material in accordance with the regulations.

Additional information

None

7. Handling and storage

7.1 Handling

Advice on safe handling

Use only in well-ventilated areas.

Advice on protection against fire and explosion

Keep away from sources of ignition. No smoking. Vapours may form explosive mixture with air.

7.2 Storage

Requirements on storage rooms and vessels

Observe your national regulations relating to the storage of containers under pressure.

Safety Data Sheet conformable to EC directive 91/155 EEC



Product name: W & H Service Oil MD 100 Spray F1

Date: 24.7.2000

Revision date: 1.3.2000

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Incompatible materials

Incompatible with oxidizing agents.

Further information on storage conditions

Keep in a well-ventilated place. Keep away from heat.

8. Exposure controls/personal protection

8.1 Additional advice on system design

not applicable

8.2 Ingredients and specific control parameters

8.3 Personal protective equipment

Respiratory protection

No special protective equipment required.

Hand protection

No special protective equipment required.

Eye protection

No special protective equipment required

Body protection

No special protective equipment required.

Other protection measures

No special protective equipment required.

General protection and hygiene measures

Avoid prolonged and/or repeated contact with skin. Clean skin thoroughly after work; apply skin cream. Do not breath vapours or spray mist.

9. Physical and chemical properties

9.1 Appearance

Form: aerosol
Colour: light yellow
Odour: mint-like

9.2 Safety data

Change in physical state

Boiling point:

> 85 °C

Test method

solvent

Flash point:

< -20 °C

solvent

Ignition temperature:

approx. 260 °C

solvent

Safety Data Sheet conformable to EC directive 91/155 EEC



Product name: W & H Service Oil MD 400 Spray F1

Date: 24.7.2000

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Explosive properties

lower explosion limit: approx. 0,8 Vol.% solvent

upper explosion limit: approx. 8,0 Vol.%

Vapour pressure-first: approx. 170 hPa, 20°C solvent

Density: approx. 0,84 g/cm³, 20°C agent

Water solubility: insoluble g/l

pH value: not applicable

Kinematic viscosity: not applicable

9.3 Further Information

This information refers to the agent.

10. Stability and reactivity

Conditions to avoid

Protect from sun.

Materials to avoid

strong oxidizing agents (agent)

Hazardous decomposition products

None under normal use.

Additional information

Fire or intense heat may cause violent rupture of packages.

11. Toxicological Information

The toxicological data has been taken from products of similar composition.

Acute toxicity : LD50/oral/rat = > 2 g/kg (literature data)

Chronic toxicity : None

Human experience : Prolonged skin contact may cause skin irritation and/or dermatitis.

12. Ecological Information

Information on elimination (persistence and degradability)

Product is insoluble in water. May be separated out mechanically in purification plants.

Behaviour in environmental compartments

Ecological injuries are not known or expected under normal use.

Ecotoxic effects

Aquatic toxicity is unlikely due to low solubility.

Safety Data Sheet conformable to EC directive 91/155 EEC



Product name: W & H Service Oil MD 400 Spray F1
Date: 24.7.2000 Revision data: 1.3.2000

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Additional Information

Should not be released into the environment.
This information refers to the agent.

13. Advice on disposal

Disposal

Empty spray can as far as possible.
Can be incinerated when in compliance with local, state and federal regulations.

Dispose of contaminated packaging and recommended cleaning

Dispose of as unused product. Offer empty spray cans to an established disposal company.

14. Transport Information

14.1 Land transport

GGVS/GGVE: Cl.2, no.5 F

Name:

Aerosol

14.2 Inland waterways transport

ADN/ADNR: no data available

14.3 Sea transport

IMDG-Code: Class 2

UN number: 1950

EMS: 2-13

MFAQ: 4.2

Name

Aerosols

14.4 Air transport

ICAO/IATA-DGR: Class 2.1

UN/D number: 1950

Name

Aerosols, flammable

14.5 Further Information

None

Safety Data Sheet conformable to EC directive 91/155 EEC



Product name: W & H Service Oil MD 400 Spray F1

Date: 24.7.2000

Revision date: 1.3.2000

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15. Regulatory information

15.1 Labelling according to EU-guidelines

The product is classified and labelled in accordance with EC-directives/German regulations on dangerous substances.

Hazards

F+ - Extremely flammable

Hazardous component(s) to be indicated on label
propane-butane

S phrases

02-09-16-23-51

Keep out of the reach of children.

Keep container in a well-ventilated place.

Keep away from sources of ignition - No smoking.

Do not breathe vapour / spray.

Use only in well-ventilated areas.

Special labelling on certain preparations

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

15.2 National regulations

16. Other Information

Issue-department of Safety Data Sheet: Chemical Documentation, Tel.: +49 - 89 - 7878 - 564

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ACTIO MSDS ID: 30688

View Section: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION (W&H)

Product Name: **W and H Service Oil F1MD 500 (W and H Artikelnummer: 02675910, 02675920)**

Distributor Name: **Klöber Lubrication München KG**

Distributor Address: **Gelsenhausenerstrasse 7
D-81379 München**

Fax: **0049 (0) 897876-333**

Further information obtainable from:
Material Compliance Management

Information in case of emergency: **0049 (0) 89 7876 700
(24 hrs)**

Distributor Telephone: **0049 (0) 897876-0**

Revision Date: **02.03.2010**

Trade Names: **W & H Service Oil F1MD 500 (W&H Artikelnummer: 02675910, 02675920)**

Manufacturer Name: **Klöber Lubrication München KG**

Address: **Gelsenhausenerstrasse 7
D-81379 München**

Further information obtainable from:
Material Compliance Management

Information in case of emergency: **0049 (0) 89 7876 700
(24 hrs)**

General Use: **Application of the substance/the preparation: Lubricating oil**

Email: **mcm@kloeber.com**

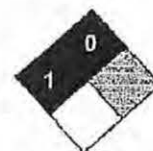
Business Phone: **0049 (0) 897876-0**

Business Fax: **0049 (0) 897876-333**

Safety Data Sheet
according to 1907/2006/EC, Article 31

Product Codes: **Article number: 028073**

NFPA

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SECTION 2: COMPOSITION INFORMATION ON INGREDIENTS (W&H)

Ingredient Name	CAS#	Ingredient Percent
Polyalphaolefine	58649-11-6	2.5-10%
EC Index Number:	1	
Hazard Symbols:	Xn	
Risk Phrases:	R 65	
Comments:	Dangerous components	

Chemical characterization: **Description:
Synthetic hydrocarbon oil
ester oil**

Additional information: For the wording of the listed risk phrases refer to section 16.

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SECTION 3: HAZARD IDENTIFICATION (W&H)

Environment Hazards: **Information concerning particular hazards for human and environment:
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.**

Hazard description: Not applicable.

Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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SECTION 4: FIRST AID MEASURES (W&H)

Eye Contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Skin Contact:	Wash off with soap and plenty of water.
Inhalation:	Supply fresh air; consult doctor in case of complaints.
Ingestion:	After swallowing: If symptoms persist consult doctor.
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SECTION 5: FIRE-FIGHTING MEASURES

Explosion:	Danger of explosion: Product does not present an explosion hazard.
Flash Point:	> 200 deg C
Flash Point Method:	(DIN ISO 2592)
Extinguishing Media:	Suitable: Water haze Foam Fire-extinguishing powder Carbon dioxide
Unsuitable Media:	For safety reasons unsuitable extinguishing agents: Water with full jet
Hazardous Combustion Byproducts:	Special hazards caused by the substance, its products of combustion or resulting gases: In case of fire, the following can be released: Carbon monoxide (CO) Hydrocarbons
Protective Equipment:	Do not inhale explosion gases or combustion gases. Standard procedure for chemical fires.
Additional Information:	Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

[To Top of page](#)**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions:	Person-related safety precautions: Particular danger of slipping on leaked/spilled product.
Spill Cleanup Measures:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.
Environmental Precautions:	Do not allow to enter sewers/surface or ground water.

[To Top of page](#)**SECTION 7: HANDLING AND STORAGE**

Handling:	Information for safe handling: Prevent formation of aerosols. Information about fire - and explosion protection: No special measures required.
Storage:	Requirements to be met by storerooms and receptacles: Store in cool, dry conditions in well sealed receptacles. Information about storage in one common storage facility: Store away from foodstuffs. Store away from oxidizing agents.
Hygiene Practices:	Further information about storage conditions: None. Do not inhale gases/fumes/aerosols. Immediately remove all soiled and contaminated clothing Avoid close or long term contact with the skin. Be sure to clean skin thoroughly after work and before breaks.

[To Top of page](#)**SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION**

Personal Protective Equipment Routine Handling:	General protective and hygienic measures: Do not inhale gases/fumes/aerosols. Immediately remove all soiled and contaminated clothing Avoid close or long term contact with the skin. Be sure to clean skin thoroughly after work and before breaks.
Hand Protection Description:	Preventive skin protection by use of skin-protecting agents is recommended.
Eye/Face Protection:	Goggles recommended during refilling
Exposure Limits:	Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information about design of technical facilities: No further data; see section 7. Additional information: The lists valid during the making were used as basis.

[To Top of page](#)**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State/Appearance:	Form: Fluid
Color:	Light yellow
Odor:	Product specific
Flash Point:	> 200 deg C
Flash Point Method:	(DIN ISO 2592)
Solubility:	In/Miscibility with water: Insoluble.
Density:	At 20 deg C: ~ 0.84 g/cm ³ (DIN 51757)
Viscosity:	Kinematic at 40 deg C: ~ 15 mm ² /s (DIN 51562)

Pour Point: < -40 deg C (DIN ISO 3016)
 Danger of explosion: Product does not present an explosion hazard.

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SECTION 10: STABILITY AND REACTIVITY

Conditions to Avoid: No decomposition if used and stored according to specifications.
 Incompatibilities with Other Materials: Materials to be avoided: oxidizing agents
 Reactivity: Dangerous reactions: No dangerous reactions known.
 Hazardous Decomposition Products: Thermal decomposition: No decomposition if used and stored according to specifications.
 Dangerous decomposition products: None under normal use

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SECTION 11: TOXICOLOGICAL INFORMATION

Polyalphalefine:
 Irritation: Prolonged skin contact may cause skin irritation and/or dermatitis.

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SECTION 12: ECOLOGICAL INFORMATION

Ecological Paragraph: Behaviour in sewage processing plants: The product can be mechanically separated.
 General notes: Do not allow product to reach ground water, water course or sewage system.

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Product:
 Recommendation: Can be reused after reprocessing.
 Waste disposal key:
 For this product no waste disposal key according the European Waste Catalogue (EWC) can be determined, as only the purpose of application defined by the user enables an allocation. The waste code number has to be determined in accordance with the local waste disposer.
 Undeanned packaging:
 Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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SECTION 14: TRANSPORT INFORMATION

Transport/Additional information:
 Not classified as dangerous according to the above specifications.

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SECTION 15: REGULATORY INFORMATION

Polyalphalefine:
 European Community Chemical Inventory Status: Labelling according to EU guidelines:
 The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EU" as issued in the latest valid version.
 Special labelling of certain preparations:
 Safety data sheet available for professional user on request.
 Substances of very high concern (SVHC) according to REACH, Article 57:
 None of the ingredients is listed.

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SECTION 16: ADDITIONAL INFORMATION

MSDS Revision Date: 02.03.2010
 Data compared to the previous version altered: Section 1
 MSDS Author: Department issuing MSDS: Material Compliance Management
 Contact: +49(0)897876-1564
 Disclaimer:
 This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
 Relevant R-phrases: 65 Harmful: may cause lung damage if swallowed.

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