

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

Printing date 25.01.2010

Revision: 25.01.2010

### 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** W&H Serv. Oil F1 MD400 REF10940011
- **Article number:** 081250
- **Application of the substance / the preparation** lubricating spray
- **Manufacturer/Supplier:**  
KLÜBER LUBRICATION MÜNCHEN KG  
Geisenhausenerstrasse 7  
D-81379 München  
Tel.: 0049 (0) 897876-0  
Fax: 0049 (0) 897876-333
- **Further information obtainable from:**  
Material Compliance Management  
E-Mail: mcm@klueber.com
- **Information in case of emergency:** 0049 (0) 89 7876 700 (24 hrs)

### 2 Hazards identification

- **Hazard description:**



Xi Irritant  
F+ Extremely flammable

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

R 12 Extremely flammable.

R 38 Irritating to skin.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 67 Vapours may cause drowsiness and dizziness.

Only for trade users / technical specialists

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.

Buildup of explosive mixtures possible without sufficient ventilation.

- **Classification system:**

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

### 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Active agent with propellant and solvent.

(Contd. on page 2)

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Trade name: W&amp;H Serv. Oil F1 MD400 REF10940011

(Contd. of page 1)

**· Dangerous components:**

	Mixture: Propane, Butane, Isobutane F+; R 12	25-50 %
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light Xn, Xi, F, N; R 11-38-51/53-65-67	10-25%

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

## 4 First-aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Wash off with soap and plenty of water.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **Information for doctor:**
- **Treatment** Treat symptomatically.

## 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**  
Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6 Accidental release measures

- **Person-related safety precautions:**  
Wear protective clothing.  
Ensure adequate ventilation  
Keep away from ignition sources.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Pick up mechanically.  
Dispose of the material collected according to regulations.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect from heat.  
Fumes can combine with air to form an explosive mixture.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.

(Contd. on page 3)

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Trade name: W&amp;H Serv. Oil F1 MD400 REF10940011

(Contd. of page 2)

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

### 106-97-8 butane

WEL ()	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm
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- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the skin.  
Be sure to clean skin thoroughly after work and before breaks.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact gloves made of the following materials are suitable:**  
Nitrile rubber, NBR
- **As protection from splashes gloves made of the following materials are suitable:**  
PVC gloves  
Neoprene gloves
- **Eye protection:** Not required.

## 9 Physical and chemical properties

- **General Information**

<b>Form:</b>	Aerosol
<b>Colour:</b>	Light yellow
<b>Odour:</b>	Product specific

- **Change in condition**

**Boiling point/Boiling range:** < -10°C

- **Flash point:** ~ - 80°C
- **Ignition temperature:** > 350°C
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Explosion limits:**

<b>Lower:</b>	1.8 Vol %
<b>Upper:</b>	11.2 Vol %
- **Vapour pressure at 20°C:** > 1200 hPa
- **Density at 20°C:** ~ 0.6 g/cm<sup>3</sup>

(Contd. on page 4)

# Safety Data Sheet

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(Contd. of page 3)

- **Solubility in / Miscibility with water:** Insoluble.
- **Additional information:** Values refer to the propellant

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Dangerous reactions**  
Danger of receptacles bursting because of high vapour pressure when heated.
- **Dangerous decomposition products:**  
In case of fire, the following can be released:  
Hydrocarbons  
Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant

## 12 Ecological information

- **Ecotoxicological effects:**
- **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.  
The declaration of the ecology refers to the active agent.

## 13 Disposal considerations

- **Product:**
- **Recommendation** Can be incinerated in accordance with local and national regulations.
- **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.
- **Uncleaned packaging:**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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(Contd. on page 5)

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(Contd. of page 4)

## 14 Transport information

- Land transport ADR/RID (cross-border)



- ADR/RID class: 2 5F Gases.
- Danger code (Kemler): 23
- UN-Number: 1950
- Packing group: -
- Hazard label: 2.1
- Description of goods: 1950 AEROSOLS

- Maritime transport IMDG:



- IMDG Class: 2.1
- UN Number: 1950
- Label: 2.1
- Packing group: -
- EMS Number: F-D,S-U
- Proper shipping name: AEROSOLS

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 2.1
- UN/ID Number: 1950
- Label: 2.1
- Packing group: -
- Proper shipping name: AEROSOLS, flammable

## 15 Regulatory information

- Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product:



Xi Irritant  
F+ Extremely flammable

- Hazard-determining components of labelling: Not required.

- Risk phrases:

12 Extremely flammable.

38 Irritating to skin.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

67 Vapours may cause drowsiness and dizziness.

(Contd. on page 6)

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(Contd. of page 5)

- **Safety phrases:**

- 2 Keep out of the reach of children.
- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe fumes/aerosol.
- 24 Avoid contact with skin.
- 37 Wear suitable gloves.
- 51 Use only in well-ventilated areas.
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

- **Special labelling of certain preparations:**

- Labeled as aerosol under 2008/47/EC
- Only for trade users / technical specialists
- 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.
- Buildup of explosive mixtures possible without sufficient ventilation.

- **National regulations:**

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

## 16 Other information

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**

- 11 Highly flammable.
- 12 Extremely flammable.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.

- **Department issuing MSDS: Material Compliance Management**

- **Contact: +49(0)897876-1564**

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