

## MATERIAL SAFETY DATA SHEET

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** W & H Service Oil F1 MD400 REF 10940011  
**Article Code:** 081250  
**Synonyms:** No information available  
**Chemical characterisation:** Not applicable..

**Supplier:**  
Klüber Lubrication North America L.P.  
32 Industrial Drive  
Londonderry, NH 03053  
(603) 647-4104  
Fax (603) 647-4106

**Emergency telephone number** CHEMTREC: 1-800-424-9300 International: (703) 527-3887

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	ACGIH (TWA mg/m <sup>3</sup> ):	OSHA (TWA mg/m <sup>3</sup> ):
Butane (propellant)		2400	None
Synthetic hydrocarbon oil		None	None
Ester oil		None	None
Propane (propellant)		1800	1800

### 3. HAZARDS IDENTIFICATION

**Properties affecting health:** Harmful by inhalation  
Harmful in contact with skin  
Harmful if swallowed

**Principle routes of exposure:** Respiratory system. Skin.

**Skin contact:** Prolonged skin contact may cause skin irritation and/or dermatitis..

**Eye contact:** Contact with eyes may cause irritation.

**Inhalation:** May cause irritation of respiratory tract. May cause asphyxiation in high concentrations. In confined or poorly ventilated areas, vapors can readily accumulate and can cause unconsciousness and death.

**Ingestion:** Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea

### 4. FIRST AID MEASURES

**General advice:** If symptoms persist, call a physician.

<b>Skin contact:</b>	Rinse with plenty of water. If skin irritation persists, call a physician.
<b>Eye contact:</b>	Flush eye with water for 15 minutes. If symptoms persist, call a physician.
<b>Inhalation:</b>	Move to fresh air. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. If symptoms persist, call a physician.
<b>Ingestion:</b>	Do not induce vomiting. Consult a physician.
<b>Notes to physician:</b>	Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**

Carbon dioxide (CO<sub>2</sub>), Dry chemical, Dry sand, Water spray mist or foam

**Extinguishing media which must not be used for safety reasons:**

Do not use a solid water stream as it may scatter and spread fire.

**Special protective equipment for firefighters:**

In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. Standard procedure for chemical fires.

<b>Specific hazards:</b>	Extremely flammable In the event of fire and/or explosion do not breathe fumes Burning produces irritant fumes
<b>Unusual hazards:</b>	No hazards resulting from the material as supplied
<b>Specific methods:</b>	Water mist may be used to cool closed containers. Standard procedure for chemical fires.
<b>Flash point:</b>	Butane: -73°C Propane: -104°C
<b>Autoignition temperature:</b>	Not determined..

**Flammability Limits in Air:**

<b>Lower</b>	Butane: 1.6%. Propane: 2.1%.
<b>Upper</b>	Butane: 8.4%. Propane: 9.5%.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Pay attention to flashback. Avoid contact with skin, eyes and clothing.
<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains.
<b>Methods for cleaning up:</b>	Keep people away from and upwind of spill/leak. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Pick up and transfer to properly labelled containers.

## 7. HANDLING AND STORAGE

**Handling**

<b>Technical measures/precautions:</b>	Keep away from open flames, hot surfaces and sources of ignition. Ensure adequate ventilation.
<b>Safe handling advice:</b>	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

## 7. HANDLING AND STORAGE

### Storage

**Technical measures/storage conditions:**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labelled containers. Keep out of reach of children.

**Incompatible products:**

No materials to be specially mentioned.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures to reduce exposure:**

Ensure adequate ventilation..

**Personal Protective Equipment****Respiratory protection:**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Hand protection:**

Impervious gloves.

**Skin and body protection:**

Usual safety precautions while handling the product will provide adequate protection against this potential effect..

**Eye protection:**

Safety glasses with side-shields.

**Hygiene measures:**

Avoid contact with skin, eyes and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Flammable Aerosol	<b>Appearance:</b>	Aerosol
<b>Color:</b>	Yellow	<b>Odor:</b>	Not significant
<b>Specific gravity:</b>	~ 0.60	<b>Boiling point/range</b>	No information available
<b>Evaporation rate:</b>	Not determined	<b>Vapor density:</b>	Not determined
<b>Vapor pressure:</b>	Not determined	<b>Solubility:</b>	Insoluble.

## 10. STABILITY AND REACTIVITY

**Stability:**

Risk of receptacle bursting Risk of ignition

**Polymerization:**

Hazardous polymerisation does not occur.

**Hazardous decomposition products:**

carbon oxides

**Materials to avoid:**

Strong oxidising agents.

**Conditions to avoid:**

Heat, flames and sparks.. Vapours may form explosive mixture with air..

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** No data available

## 12. ECOLOGICAL INFORMATION

**Mobility:** No information available.

**Bioaccumulative potential:** No information available.

**Ecotoxicity effects:** No data available.

**Aquatic toxicity:** No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:** In accordance with local and national regulations.

**Contaminated packaging:** Offer empty spray cans to an established disposal company..

### 14. TRANSPORT INFORMATION

#### DOT

**Proper shipping name:** Aerosols, flammable  
**UN-No:** UN1950  
**Hazard Class:** 2.1

#### TDG (Canada)

#### IMO / IMDG

**Proper shipping name:** Aresols, flammable  
**UN-No:** UN1950  
**Hazard Class:** 2.1

#### ICAO

#### IATA

**Proper shipping name:** Aerosols, flammable  
**UN-No:** UN1950  
**Hazard Class:** 2.1

### 15. REGULATORY INFORMATION

#### TSCA

**TSCA:** Listed in TSCA

#### U.S. Regulations:

##### *Butane (propellant)*

**MARTK:** Listed.  
**NJRTK:** Substance no. 0273 Listed.  
**PARTK:** Listed.  
**RIRTK:** Listed.  
**ILRTK:** Listed.  
**CTRTK:** Listed.

##### *Propane (propellant)*

**MARTK:** Listed.  
**NJRTK:** Substance no. 1594 Listed.  
**PARTK:** Listed.  
**RIRTK:** Listed.  
**ILRTK:** Listed.  
**CTRTK:** Listed.

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**Sara (311, 312) hazard class:**

**Canada**

**WHMIS hazard class:**

B5 Flammable aerosol

<b>16. OTHER INFORMATION</b>
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**NFPA**      **Health:**    1                      **Flammability:** 4                      **Instability:**    0

**HMIG**      **Health:**    1                      **Flammability:** 4                      **Reactivity:**    0

**Reason for revision:**                      Not applicable  
**Prepared by:**                                      Health & Safety

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