

# SAFETY DATA SHEETS

**This SDS packet was issued with item:**

071030717

N/A



# SAFETY DATA SHEET

Issue Date 27-Jan-2015

Revision Date 27-Jan-2015

Version 1

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

### Product identifier

**Product Name** W & H Service Oil F1 MD 500

### Other means of identification

**Product code:** 028073

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Lubricant.

**Uses advised against** No information available

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

#### **Supplier Address**

Klüber Lubrication NA, LP  
32 Industrial Drive  
Londonderry, NH 03053  
Phone: (603) 647-4104  
Fax: (603) 647-4106

### Emergency telephone number

**Emergency Telephone** CHEMTREC: 1-800-424-9300; INTERNATIONAL: (703) 527-3887

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

#### EMERGENCY OVERVIEW

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance** Oil

**Physical state** Liquid

**Odor** Mild

### Hazards not otherwise classified (HNOC)

#### **Other information**

• Harmful to aquatic life with long lasting effects

#### **Unknown Acute Toxicity**

23.1% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Components	CAS-No	Weight %	Trade Secret
1-Decene, dimer, hydrogenated	68649-11-6	1-10	*
2,6-Di-t-butyl-4-methylphenol (BHT)	128-37-0	< 0.25	*

#### 4. FIRST AID MEASURES

##### First aid measures

<b>Eye contact:</b>	Flush eye with water for 15 minutes. If symptoms persist, call a physician.
<b>Skin contact:</b>	Rinse with plenty of water. If skin irritation persists, call a physician.
<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
<b>Ingestion:</b>	Do not induce vomiting. Consult a physician.

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

**Symptoms** No information available.

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

**Notes to physician:** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media:

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

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

##### Specific hazards arising from the chemical

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

**Hazardous combustion products** Carbon oxides.

##### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

##### Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Standard procedure for chemical fires.

#### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions:** Contaminated surfaces will be extremely slippery. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

##### Environmental precautions

**Environmental precautions:** Do not allow material to contaminate ground water system. Prevent product from entering drains.

##### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up:** Soak up with oil absorbent material. Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Do not breathe vapors or spray mist. Avoid contact with eyes and skin. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store in original container. Keep tightly closed in a dry and cool place. Keep in properly labelled containers. Keep away from direct sunlight

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** Contains mineral oil, vegetable oil, and/or synthetic oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg/m<sup>3</sup>, ACGIH STEL of 10 mg/m<sup>3</sup>.

Components	ACGIH TLV	OSHA (TWA mg/m <sup>3</sup> ):	IDLH:
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	2 mg/m <sup>3</sup> (Inhalable fraction and vapor)	(vacated) TWA: 10 mg/m <sup>3</sup>	

### Appropriate engineering controls

**Engineering measures to reduce exposure:** Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

**Respiratory protection:** No personal respiratory protective equipment normally required.  
**Hand protection:** Gloves made of plastic or rubber  
**Eye protection:** Safety glasses with side-shields  
**Skin and body protection:** Usual safety precautions while handling the product will provide adequate protection against this potential effect  
**General Hygiene Considerations** Avoid contact with skin, eyes and clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b> Liquid				
<b>Appearance</b> Oil		<b>Odor</b> Mild	<b>Color</b> Yellow	<b>Odor threshold</b> No information available
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	<b>pH</b>	Not applicable
<b>Melting point/freezing point</b>	No information available		<b>Boiling point / boiling range</b>	No information available
<b>Flash point</b>	> 200 °C / > 392 °F	ISO 2592	<b>Evaporation rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available		<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available		<b>Lower flammability limit:</b>	No information available
<b>Vapor pressure</b>	< 0.17 hPa, 20°C		<b>Vapor density</b>	No information available
<b>Specific Gravity</b>	0.84		<b>Water solubility</b>	Insoluble in water
<b>Solubility in other solvents</b>	No information available		<b>Partition coefficient</b>	No information available

<b>Autoignition temperature</b>	No information available	<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	22 mm <sup>2</sup> /s @ 40 °C	<b>Dynamic viscosity</b>	No information available
<b>Explosive properties</b>	No information available		
<b>Oxidizing properties</b>	No information available		

**Other information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

**10. STABILITY AND REACTIVITY****Reactivity**

Not applicable

**Chemical stability**

<b>Stability</b>	Stable under normal conditions
<b>Possibility of Hazardous Reactions</b>	
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.

**Conditions to avoid**

<b>Conditions to avoid</b>	No special storage conditions required
----------------------------	--

**Hazardous Decomposition Products**

<b>Hazardous Decomposition Products</b>	None under normal processing
---	------------------------------

**Incompatible materials**

<b>Incompatible materials</b>	Strong oxidising agents
-------------------------------	-------------------------

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information
<b>Eye contact</b>	May cause slight irritation.
<b>Skin contact</b>	Prolonged contact may cause redness and irritation.
<b>Inhalation</b>	Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Components	Oral LD50	Dermal LD50	Inhalation LC50
1-Decene, dimer, hydrogenated - 68649-11-6	> 5,000 mg/kg (Rat)	> 3,000 mg/kg (Rabbit)	1.17 mg/l, 4 h (Rat) dust/mist
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	= 2,930 mg/kg ( Rat )	> 2,000 mg/kg (Rat)	-

**Information on toxicological effects****Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Sensitization</b>	No sensitization responses were observed.
----------------------	---

<b>Mutagenic effects:</b>	Did not show mutagenic or teratogenic effects in animal experiments.
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen.
<b>Components</b>	2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0
<b>ACGIH</b>	-
<b>IARC:</b>	Group 3
<b>NTP Report on Carcinogens List -</b>	-
<b>OSHA</b>	-
<b>Reproductive toxicity</b>	This product does not contain any known or suspected reproductive hazards.
<b>STOT - Single Exposure</b>	None under normal use conditions.
<b>STOT - Repeated Exposure</b>	None under normal use conditions.
<b>Aspiration hazard</b>	Not applicable.

#### Numerical measures of toxicity - Product Information

<b>Unknown Acute Toxicity</b>	23.1% of the mixture consists of ingredient(s) of unknown toxicity
<b>The following values are calculated based on chapter 3.1 of the GHS document .</b>	
<b>ATEmix (oral)</b>	5052 mg/kg
<b>ATEmix (dermal)</b>	5052 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	5.4 mg/l

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic life with long lasting effects

0.625% of the mixture consists of component(s) of unknown hazards to the aquatic environment

1-Decene, dimer, hydrogenated - 68649-11-6	
<b>Algae/aquatic plants</b>	> 1,000 mg/l, 72 h, Scenedesmus capricornutum
<b>Fish</b>	> 1,000 mg/l, 96 h, Oncorhynchus mykiss
<b>Crustacea</b>	> 1,000 mg/l, 48 h, Daphnia magna
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	
<b>Algae/aquatic plants</b>	6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodesmus subspicatus mg/L EC50
<b>Fish</b>	0.464 mg/l, 96 h, Fish
<b>Crustacea</b>	0.386 mg/l, 48 h, Daphnia magna

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

### Mobility

The product is insoluble and floats on water.

Components	Partition coefficient
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	4.17

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Disposal of wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. TRANSPORT INFORMATION

DOT Not Regulated

IATA-DGR Not Regulated

IMO / IMDG Not Regulated

## 15. REGULATORY INFORMATION

### International Inventories

**TSCA:** Listed in TSCA

**DSL:** All of the components in this product are listed in DSL

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

### Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### State Regulations (RTK)

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Components	NJRTK:	MARTK:	PARTK:
2,6-Di-t-butyl-4-methylphenol (BHT) - 128-37-0	Substance no. 0814 Listed.	Listed.	Listed.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**Nfpa:

Health: 1

Flammability: 1

Instability 0

NFPA/HMIS \* for Carc, Muta, Tera, Specific Organ \*

HMIS health rating:

Health: 1

Flammability: 1

Physical hazards 0

Personal protection B

Issue Date 27-Jan-2015

Revision Date 27-Jan-2015

## Revision Note

Not applicable

Disclaimer

The information and recommendations contained herein are based upon tests believed to be reliable. However, Klüber does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage maybe required. Klüber assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

**End of Safety Data Sheet**