



To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrant or guarantee the information. We provide vendor SDSs to assist our customers in their compliance efforts. The attached document is in compliance with one of the respective country regulatory requirements noted below:

The OSHA Hazard Communication Standard (in the United States)  
The Hazardous Products Regulations (in Canada)

We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Product Stewardship Team  
Zep Inc.

Issue Date 29-Jun-2016

Revision Date 29-Jun-2016

Version 2

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

### Product identifier

**Product Name** Klüberalfa MR 3

### Other means of identification

**Product code:** 090118

**Synonyms** None

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

**Recommended Use** Lubricant.

**Uses advised against** Consumer use

### 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. HAZARD IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

### Label Elements

#### **EMERGENCY OVERVIEW**

#### **Signal word**

Not Hazardous

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

**Appearance** Oil

**Physical state** Liquid

**Odor** Slight Ether

### Hazards not otherwise classified (HNOC)

### Other information

## 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
Hydrofluorocarbon solvent	Proprietary	90-99	*
Perfluorinated polyether oil	Proprietary	1-10	*

#### 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 symptoms persist, call a physician.
<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. In the case of inhalation of aerosol/mist consult a physician if necessary.
<b>Ingestion:</b>	Do not induce vomiting. Call a physician or Poison Control Centre immediately.

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

<b>Symptoms</b>	No information available.
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##### Indication of any immediate medical attention and special treatment needed

<b>Notes to physician:</b>	Treat symptomatically.
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#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media:

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

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

##### Specific hazards arising from the chemical

Fire may cause hydrogen fluoride to evolve. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Water may be used to cool closed containers.

##### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

##### 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.

#### 6. ACCIDENTAL RELEASE MEASURES

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

<b>Personal precautions:</b>	Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Contaminated surfaces will be extremely slippery. Wear personal protective equipment.
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##### Environmental precautions

<b>Environmental precautions:</b>	Do not allow material to contaminate ground water system. Prevent product from entering drains.
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##### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
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**Methods for cleaning up:** Keep people away from and upwind of spill/leak. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Avoid temperatures above 150°C. Avoid contact with skin, eyes and clothing. Spilling onto the container's outside will make container slippery. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep cool. Keep in properly labelled containers. Keep away from heat and sources of ignition

## 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>.

### 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:** Preventive skin protection  
**Eye protection:** Avoid contact with eyes  
**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> Slight Ether	<b>Color</b> Colorless	<b>Odor threshold</b> No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>		
<b>Melting point/freezing point</b>	No information available		<b>pH</b>	Not applicable
<b>Flash point</b>	Not Applicable	ISO 2592	<b>Boiling point / boiling range</b>	No information available
<b>Flammability (solid, gas)</b>	No information available		<b>Evaporation rate</b>	No information available
<b>Upper flammability limit:</b>	No information available		<b>Flammability Limit in Air</b>	
<b>Vapor pressure</b>	269 hPa, 20 °C		<b>Lower flammability limit:</b>	No information available
<b>Specific Gravity</b>	1.53		<b>Vapor density</b>	Hydrofluorocarbon solvent: 8.6 (air = 1)
			<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>	405 °C / 761 °F	<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	95 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

**Stability** Stable up to approximately 150°C

#### Possibility of Hazardous Reactions

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

#### Conditions to avoid

**Conditions to avoid** Heat, flames and sparks

#### Hazardous Decomposition Products

<b>Hazardous Decomposition Products</b>	Hydrogen fluoride
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#### Incompatible materials

<b>Incompatible materials</b>	Strong bases
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### 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>	Contact with eyes may cause irritation.
<b>Skin contact</b>	Substance may cause slight skin 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>	No known effect.

Components	Oral LD50	Dermal LD50	Inhalation LC50
Hydrofluorocarbon solvent -	> 5000 mg/kg (oral, rat)	-	> 1000 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>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<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

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No known hazards to the aquatic environment.

	Hydrofluorocarbon solvent -
<b>Algae/aquatic plants</b>	-
<b>Fish</b>	-
<b>Crustacea</b>	> 10 mg/L

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

### Mobility

No information available.

## 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

<b><u>DOT</u></b>	Not Regulated by any means of transportation
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## 15. REGULATORY INFORMATION

### International Inventories

<b>TSCA:</b>	Listed in TSCA
<b>DSL:</b>	All of the components in this product are listed in DSL
<b>EINECS/ELINCS</b>	This product complies with EINECS/ELINCS

**CHINA:** This product complies with China IECSC.  
**KECL:** This product does not comply with Korea KECL.  
**PICCS:** This product complies with Philippines PICCS.  
**AICS:** All the constituents of this material are listed on the Australian AICS

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**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:
Hydrofluorocarbon solvent -	Not Listed	Not Listed	Listed
Perfluorinated polyether oil -	Not Listed	Not Listed	Listed

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**16. OTHER INFORMATION**

**Nfpa:**

**Health:** 3

**Flammability:** 1

**Instability** 0

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

**HMIS health rating:**

**Health:** 0

**Flammability:** 1

**Physical hazards** 0

**Personal protection** B

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**Revision Note**

Not applicable

**Disclaimer**

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**End of Safety Data Sheet**