

SDS no. 141455  
Version 3  
Revision date 07/Nov/2017  
Supersedes date 10/Aug/2017



## Safety Data Sheet LUBE OB\*

### 1. Identification

#### 1.1 Product identifier

Product name LUBE OB\*  
Product code 141455

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Lubricant.  
Uses advised against Consumer use

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

Supplier  
**M-I L.L.C.**  
P.O.Box 42842  
Houston, TX 77242  
www.miswaco.slb.com  
Telephone: 1 281-561-1511

**M-I SWACO, A Schlumberger Company**  
200 - 125, 9th Avenue SE  
Calgary, Alberta T2G 0P6, Canada  
Telephone: 1-780-962-8221

E-mail address sdsmi@slb.com

Prepared by  
Global Regulatory Compliance - Chemicals (GRC - Chemicals)

#### 1.4 Emergency Telephone Number

**Emergency telephone** (24 Hour) Asia Pacific +65 3158 1074, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, USA +1 281 561 1600, Canada +1 800 579 7421, Argentina: +54 11 5984 3690, Brazil : 0800-720-8000/0800-777-2323 (WGRA)

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS - Classification

##### Health hazards

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1 Sub-Category 1B

**Environmental hazards** Not classified

**Physical Hazards** Not classified

**2.2 Label elements**



**Signal word**  
DANGER

**Hazard statements**

H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage

**Precautionary statements**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P280 - Wear protective gloves and eye/face protection  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor/physician  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

P264 - Wash face, hands and any exposed skin thoroughly after handling  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P331 - Do NOT induce vomiting  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
P362 - Take off contaminated clothing and wash before reuse

**Hazards not otherwise classified**  
None known

**Unknown acute toxicity** Not applicable.

**3. Composition/information on Ingredients**

**3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical Name	CAS No	Weight-%	Regulation (EC) No 1272/2008
1-tetradecene	1120-36-1	10 - 30	Asp. Tox. 1 (H304) EUH066
Amides, tall oil fatty N,N-bis (hydroxyethyl)	68155-20-4	10 - 30	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)

Fatty acid derivative	Proprietary	10 - 30	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)
Phosphoric ester of ethoxylated fatty alcohol	Proprietary	10 - 30	Skin Irrit. 2(H315) Eye Dam. 1(H318)
Hexadec-1-ene	629-73-2	5 - 10	Asp Tox. 1 (H304) EUH066

**Comments**

The product contains other ingredients which do not contribute to the overall classification. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret

**4. First aid measures**

**4.1 First aid measures**

<b>Inhalation</b>	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
<b>Ingestion</b>	Rinse mouth. If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation persists.
<b>Eye Contact</b>	Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses, if worn. Continue to rinse for at least 15 minutes. Seek medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

**General advice** The severity of the symptoms described will vary dependant of the concentration and the length of exposure. If adverse symptoms develop, the casualty should be transferred to hospital as soon as possible.

**Symptoms**

<b>Inhalation</b>	Please see Section 11. Toxicological Information for further information.
<b>Ingestion</b>	Please see Section 11. Toxicological Information for further information.
<b>Skin contact</b>	Please see Section 11. Toxicological Information for further information.
<b>Eye contact</b>	Please see Section 11. Toxicological Information for further information.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically  
Keep victim under observation

**5. Fire-fighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), 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.

**5.2. Special hazards arising from the substance or mixture**

**Unusual fire and explosion hazards**

Heating of containers may cause pressure rise, with risk of bursting. Vapors are heavier than air and may spread along floors. Vapors may travel considerable distance to source of ignition and flash back.

**Hazardous combustion products**

Thermal decomposition can lead to release of irritating gases and vapors.

**5.3 Advice for firefighters**

**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

**Special Fire-Fighting Procedures**

Containers close to fire should be removed immediately or cooled with water.

**6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. See also section 8. Solutions extremely slippery when spilled. Avoid breathing vapors or mists. Avoid contact with the skin and the eyes. Keep away from sources of ignition - No smoking.

**6.2 Environmental precautions**

The product should not be allowed to enter drains, water courses or the soil.

**Environmental exposure controls**

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

**6.3 Methods and material for containment and cleaning up**

**Methods for containment**

Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up**

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**6.4 Reference to other sections**

See section 13 for more information.

**7. Handling and storage**

**7.1 Precautions for safe handling**

**Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Avoid spills and splashing during use. Keep away from heat, sparks and open flame. No smoking. If spilled, take caution, as material can cause surfaces to become very slippery. Persons susceptible to allergic reactions should not handle this product.

**7.2 Conditions for safe storage, including any incompatibilities**

**Technical measures/precautions**      Ensure adequate ventilation.

**Storage precautions**                      Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking. Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Avoid frost. Store in original container.

**Packaging materials**                      Use specially constructed containers only.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	Argentina - Occupational Exposure Limits - TWAs (CMPs)	Brazil - Occupational Exposure Limits - TWAs (LTs)	Mexico - Occupational Exposure Limits - TWAs (LMPE-PPTs)
1-tetradecene	Not determined	Not determined	Not determined	Not determined	Not determined
Amides, tall oil fatty N,N-bis (hydroxyethyl)	Not determined	Not determined	Not determined	Not determined	Not determined
Fatty acid derivative	Not determined	Not determined	Not determined	Not determined	Not determined
Phosphoric ester of ethoxylated fatty alcohol	Not determined	Not determined	Not determined	Not determined	Not determined
Hexadec-1-ene	Not determined	Not determined	Not determined	Not determined	Not determined

### IDLH (Immediately Dangerous to Life or Health)

Immediately Dangerous to Life or Health (IDLH) is established by the US National Institute for Occupational Safety and Health (NIOSH). The purpose of establishing an IDLH value is to ensure that the worker can escape from a given contaminated environment in the event of failure of the most protective respiratory protection equipment. In the event of failure of respiratory protection equipment every effort should be made to exit immediately.

Chemical Name	IDLH (Immediately Dangerous to Life or Health)
1-tetradecene 1120-36-1	-
Amides, tall oil fatty N,N-bis (hydroxyethyl) 68155-20-4	-
Fatty acid derivative	-
Phosphoric ester of ethoxylated fatty alcohol	-
Hexadec-1-ene 629-73-2	-

### 8.2 Exposure controls

A risk assessment is recommended to be performed by a qualified and trained personnel to analyze the worksite and recommends the appropriate controls such as engineering controls, work practice controls, and administrative controls as primary means of reducing employee exposure. When there is a remaining hazards after applying the primary controls, Personal Protective Equipment (PPE) must be used.

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

#### Engineering Controls

Ensure adequate ventilation. Provide mechanical general and/or local exhaust ventilation to prevent release of vapor or mist into work environment.

#### Personal protective equipment

##### Eye protection

Tightly fitting safety goggles.

##### Hand protection

Impervious gloves made of: Neoprene Nitrile Rubber PVC

Break through time >480 minutes

Glove thickness >=0.4 mm

Be aware that liquid may penetrate the gloves. Frequent change is advisable.

##### Respiratory Protection

All respiratory protection equipment should be used within a comprehensive respiratory

<b>Skin and body protection</b>	protection program that meets the requirements of 29 CFR 1910.134 (U.S. OSHA Respiratory Protection Standard) or local equivalent. If exposed to airborne mist/aerosol of this product, use an organic vapor cartridge with a P-95 pre-filter attached. In work environments containing oil mist/aerosol, use an organic vapor cartridge with a P-95 pre-filter attached. If exposed to vapors from this product, use a NIOSH/MSHA-approved respirator with an organic vapor cartridge. Wear suitable protective clothing, Eye wash and emergency shower must be available at the work place.
<b>Hygiene Measures</b>	Wash hands before eating, drinking or smoking, Remove and wash contaminated clothing before re-use.

**9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid
<b>Appearance</b>	Transparent
<b>Color</b>	Colorless
<b>Odor</b>	Slight
<b>Odor threshold</b>	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH		
pH @ dilution		
Melting / freezing point	No information available	
Boiling point/range	No information available	
Flash point	> 100 °C / > 212 °F	PMCC
Evaporation rate (BuAc =1)	No information available	
Flammability (solid, gas)	Not applicable	
Flammability Limit in Air		
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	No information available	
Bulk density	No information available	
Water solubility	Insoluble in water	
Solubility in other solvents	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	> 20.5 cSt	@ 40 °C
Dynamic viscosity	No information available	
log Pow	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

**9.2 Other information**

<b>Pour 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

**Comments**

The data listed above are typical physical and chemical properties and should not be construed as product specification.

**10. Stability and reactivity**

**10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3 Possibility of Hazardous Reactions**

**Hazardous polymerization**

Not known.

**10.4 Conditions to avoid**

Avoid frost.

**10.5 Incompatible materials**

Strong oxidizing agents.

**10.6 Hazardous decomposition products**

See Section 5.2.

**11. Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

**Inhalation**

Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Eye contact**

Causes serious eye damage.

**Skin contact**

Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

**Ingestion**

Ingestion may cause stomach discomfort.

**Toxicology data for the components**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
1-tetradecene	> 10000 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	No data available
Amides, tall oil fatty N,N-bis (hydroxyethyl)	No data available	No data available	No data available
Fatty acid derivative	No data available	No data available	No data available
Phosphoric ester of ethoxylated fatty alcohol	No data available	No data available	No data available
Hexadec-1-ene	> 10000 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	> 8.5 mg/L ( Rat ) 1 h

Chemical Name	IARC Group 1 or 2	ACGIH - Carcinogens	OSHA listed carcinogens	NTP
1-tetradecene	No data available	No data available	No data available	No data available
Amides, tall oil fatty N,N-bis (hydroxyethyl)	No data available	No data available	No data available	No data available
Fatty acid derivative	No data available	No data available	No data available	No data available
Phosphoric ester of ethoxylated fatty alcohol	No data available	No data available	No data available	No data available
Hexadec-1-ene	No data available	No data available	No data available	No data available

**Sensitization**

May cause sensitization by skin contact.

**Mutagenic effects**

This product does not contain any known or suspected mutagens.

**Carcinogenicity**

This product does not contain any known or suspected carcinogens.

<b>Reproductive toxicity</b>	This product does not contain any known or suspected reproductive hazards.
<b>Developmental toxicity</b>	Not known to cause birth defects or have a deleterious effect on a developing fetus.
<b>Routes of exposure</b>	Skin contact. Eye contact. Inhalation.
<b>Routes of entry</b>	None known.
<b>Specific target organ toxicity - Single exposure</b>	Not classified
<b>Specific target organ toxicity - Repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Conclusive but not sufficient for classification. The viscosity of this product is high enough that it is not an aspiration risk and the H304 phrase does not apply.

## 12. Ecological information

### 12.1 Toxicity

#### **Toxicity to algae**

This product is not considered toxic to algae.

#### **Toxicity to fish**

Product data, > 100 mg/l LC50, 96 hrs Fish OECD 203.

#### **Toxicity to daphnia and other aquatic invertebrates**

Product data, > 100 mg/l EC50, 48 hrs Daphnia Magna OECD 202.

Chemical Name	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
1-tetradecene	> 1000 mg/l	> 1000 mg/l	> 1000 mg/l
Amides, tall oil fatty N,N-bis (hydroxyethyl)	No information available	No information available	No information available
Fatty acid derivative	No information available	No information available	No information available
Phosphoric ester of ethoxylated fatty alcohol	No information available	No information available	No information available
Hexadec-1-ene	No information available	No information available	No information available

### 12.2 Persistence and degradability

Product is biodegradable.

### 12.3 Bioaccumulative potential

Does not bioaccumulate.

### 12.4 Mobility in soil

Insoluble in water.

### 12.5 Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)  
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

### 12.6 Other adverse effects.



None known.

## 13. Disposal considerations

### 13.1 Waste treatment methods

<b>Disposal Method</b>	Disposal should be made in accordance with federal, state and local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. Transport information

### 14.1. UN number

Not regulated

<b>UN No. (DOT)</b>	Not regulated
<b>UN No. (MT/ANTT)</b>	Not regulated
<b>UN No. (TDG)</b>	Not regulated
<b>UN/ID No. (ADR/RID/ADN/ADG)</b>	Not regulated
<b>UN No. (IMDG/ANTAQ)</b>	Not regulated
<b>UN No. (ICAO/ANAC)</b>	Not regulated

### 14.2. UN proper shipping name

The product is not covered by international regulation on the transport of dangerous goods

### 14.3 Hazard class(es)

<b>DOT Hazard class</b>	Not regulated
<b>ANTT Hazard class</b>	Not regulated
<b>TDG Hazard class</b>	Not regulated
<b>ADR/RID/ADN/ADG Hazard class</b>	Not regulated
<b>IMDG/ANTAQ Hazard class</b>	Not regulated
<b>ICAO/ANAC Hazard class/division</b>	Not regulated

### 14.4 Packing group

<b>DOT/ANTT Packing group</b>	Not regulated
<b>ANTT Packing group</b>	Not regulated
<b>TDG Packing group</b>	Not regulated
<b>ADR/RID/ADN/ADG Packing group</b>	Not regulated
<b>IMDG/ANTAQ Packing group</b>	Not regulated
<b>ICAO/ANAC Packing group</b>	Not regulated

### 14.5 Environmental hazard

No

### 14.6 Special precautions

Not applicable

### 14.7 Transport in bulk according to Annex I/II of MARPOL 73/78 and the IBC Code

Please contact MISDS@slb.com for info regarding transport in Bulk.

## 15. Regulatory information

### International inventories

<b>USA (TSCA)</b>	Complies
<b>Canada (DSL)</b>	Complies
<b>Philippines (PICCS)</b>	Does not comply
<b>Japan (ENCS)</b>	Does not comply
<b>China (IECSC)</b>	Does not comply
<b>Australia (AICS)</b>	Does not comply
<b>Korean (KECL)</b>	Complies
<b>New Zealand (NZIoC)</b>	Does not comply

**Europe - REACH**

Contact REACH@slb.com for REACH information.

**U.S. Federal and State Regulations**

**SARA 311/312 Hazard Categories**

Immediate (acute) health hazard.

Chemical Name	SARA 302 / TPQs	SARA 313	CERCLA RQ
1-tetradecene	N/A	N/A	N/A
Amides, tall oil fatty N,N-bis (hydroxyethyl)	N/A	N/A	N/A
Fatty acid derivative	N/A	N/A	N/A
Phosphoric ester of ethoxylated fatty alcohol	N/A	N/A	N/A
Hexadec-1-ene	N/A	N/A	N/A

**State Comments**

Proposition 65: This product is not known to contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer and/or reproductive toxicity at levels that are expected to pose a significant risk under anticipated use conditions.

**Canadian Classification**

**HMIRA Registration Number:** 11815

**Filing Date:**

18/Oct/2017

**16. Other information**

**Supersedes date** 10/Aug/2017

**Revision date** 07/Nov/2017

**Version** 3

**This SDS has been revised in the following section(s)** 15. Regulatory Information Updated according to WHMIS 2015.

**HMIS classification**

Health	3
Flammability	1
Physical hazard	0
PPE	X

\*A mark of M-I L.L.C., a Schlumberger Company

**Disclaimer**

The information contained herein is considered in good faith as reliable of the date issued and is based upon on measurements, tests or data derived from supplier's own study or furnished by others. In providing this SDS information, Supplier makes no express or implied warranties as to the information or product; merchantability or fitness of purpose; any express or implied warranty; or non-infringement of intellectual property rights; and supplier assumes no responsibility for any direct, special or consequential damages, results obtained, or the activities of others. To the maximum extent permitted by law, supplier's warranty obligations and buyer's sole remedies are as stated in separate agreement between the parties.