

### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

<b>Product Identifier</b>	<b>PAL LUBE EP</b>
<b>Other Means of Identification</b>	
<b>Recommended Use of Chemical and Restrictions on Use</b>	Oil well drilling fluid additive. Lubricant
<b>Supplier Details</b>	<b>Oren Hydrocarbon Middle East Fzco.</b> P.O. Box 18159 Jebel Ali Free Zone (South) Dubai, UAE Tel: +971 4 8860497 Fax: +971 4 8860498
<b>Emergency Phone Number</b>	Tel: +971 4 8860497

### 2. HAZARDS IDENTIFICATION

<b>Classification of the Substance / Mixture</b>	This material is not considered hazardous under the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).
<b>Label Elements Including Precautionary Statements</b>	<b>Hazard Pictogram(s):</b> None applicable  <b>Signal Word:</b> None applicable <b>Hazard statement(s):</b> None applicable <b>Precautionary statements:</b> None applicable
<b>Hazards Not Otherwise Classified:</b>	None known.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance / mixture:** Mixture

Component	CAS No.	Weight (%)
Fatty Acid Blend	Various	60 – 100

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### 4. FIRST AID MEASURES

### First Aid Measures

**Inhalation:** Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

**Skin contact:** Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

**Eye contact:** Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

**Ingestion:** Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Never give anything by mouth to an unconscious person. If signs of irritation or toxicity occur seek medical attention.

### Most Important Symptoms / Effects, Acute and Delayed

**Acute effects:** No specific data.  
**Delayed effects:** No specific data.

### Indication of Immediate Medical Attention and Special Treatment Needed

**Note to physician:** Treat symptomatically.

**Specific treatments:** Specific treatment must be based on judgement of the physician in response to reactions of the patient.

**Protection of first aiders:** No action shall be taken involving any personal risk without suitable training.

## 5. FIREFIGHTING MEASURES

### Extinguishing Media

**Suitable extinguishing media:** All standard firefighting media.

### Special Hazards Arising from the Substance or Mixture

**Extinguishing media which must not be used for safety reasons:** No specific data. Oxides of Carbon & nitrogen, Sulphur.

### Special Protective Equipment and Precautions for Firefighters

**Special Fire-Fighting Procedures:** Do not enter fire area without proper personal protective equipment, including NIOSH/MSHA approved self-contained breathing apparatus. Evacuate area and fight fire from Water a safe distance. Spray may be used to keep fire-exposed containers cool.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use appropriate protective equipment. Avoid creating and breathing dust. See Section 8 of this safety data sheet for additional information.

**Environmental precautions:** Do not allow to enter drains, sewers or watercourses.

### Methods and Materials for Containment and Cleaning Up

Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Personal Protection. Use appropriate techniques such as applying non-combustible sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

**Protective measures:** Put on appropriate personal protective equipment. Avoid contact with skin and eyes. Avoid breathing vapors or spray mists. Use only in a well-ventilated area wash thoroughly after handling

**Advice on general occupational hygiene:** Wash hands after handling and before eating. Avoid prolonged exposure. All handling to take place in well-ventilated area. Shower after work. Remove and wash contaminated clothing promptly. See also Section 8 for additional information on hygiene measures.

### Conditions for Safe Storage, Including Any Incompatibilities

Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding shrink-wrapping and/or stacking.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters

**Occupational exposure limits:** No exposure limits noted for the ingredients.

### Appropriate Engineering Controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and risk-elimination area.

### Individual Protection Measures, Such as Personal Protective Equipment

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and / or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye / face protection:** Wear approved chemical safety goggles.

**Hand protection:** For prolonged or repeated skin contact use suitable protective gloves. Use protective gloves made of: Nitrile. or Neoprene.

**Body protection:** Wear clothing appropriate for the work environment.

**Other skin protection:** Work clothes should be washed separately at the end of each workday. Disposable clothing should be discarded, if contaminated with product.

**Respiratory protection:** All respiratory protection equipment should be used within a comprehensive respiratory protection program that meets the requirements of 29 CFR 1910.134 (U.S. OSHA Respiratory Protection). If exposed to airborne mist/aerosol of this product, use at least a NIOSH-approved N95 half-mask disposable or re-usable particulate respirator. In work environments containing oil mist/aerosol, use at least a NIOSH approved P95 half-mask disposable or reusable particulate respirator. If exposed to vapors from this product use a NIOSH/MSHA-approved respirator with an Organic Vapor cartridge.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Clear liquid without settling.

### Odor

Slight odor.

<b>Odor Threshold</b>	Not available.
<b>pH</b>	8.0 – 10.0 (1% solution).
<b>Melting Point / Freezing Point</b>	Not available.
<b>Initial Boiling Point and Boiling Range</b>	Not available.
<b>Flash Point</b>	150 <sup>0</sup> C.
<b>Evaporation Rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper / Lower Flammability or Explosive Limits</b>	Not available.
<b>Vapor Pressure</b>	Not available.
<b>Vapor Density</b>	Not available.
<b>Specific Gravity</b>	1.0 - 1.05.
<b>Solubility</b>	Soluble in water.
<b>Partial coefficient (n-octanol / water)</b>	Not available.
<b>Auto-ignition Temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not available.

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not expected to be reactive.
<b>Chemical Stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	Will not occur.
<b>Conditions to Avoid</b>	Keep away from heat, sparks and flame
<b>Incompatible Materials</b>	Oxidizers.
<b>Hazardous Decomposition Products</b>	Not known

### 11. TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects

##### Acute toxicity:

**Acute Oral Toxicity:** LD<sub>50</sub> / rat/ > 10000 mg/kg

Acute Dermal Toxicity: LD<sub>50</sub> / rabbit/ > 21900 mg/kg

Acute Inhalation Toxicity: LC<sub>50</sub> / not known

**Irritation / Corrosion:** No information available

**Sensitization:** No information available

**Mutagenicity:** No information available

**Carcinogenicity:** No information available

**Reproductive toxicity:** No information available.

**Teratogenicity:** No information available.

**Specific target organ toxicity (single exposure):** No information available

**Specific target organ toxicity (repeated exposure):** No information available

**Aspiration hazard:** Not applicable.

#### Information on Likely Routes of Exposure

**Routes of entry anticipated:** Oral; dermal, inhalation.

**Inhalation:** No specific data.

**Skin contact:** No specific data.

**Eye contact:** No specific data.

**Ingestion:** No specific data.

#### Symptoms Related to the Physical, Chemical and Toxicological Characteristics

**Inhalation:** No specific health warnings noted. Vapours may irritate respiratory systems or lungs.

**Skin contact:** Prolonged or repeated contact may cause mild irritation.

**Eye contact:** Spray and vapours in the eyes may cause irritation.

**Ingestion:** May cause abdominal pain, vomiting, nausea, and diarrhea, if swallowed.

#### Delayed and Immediate Effects, and also Chronic Effects From Short and Long-term Exposure

See Information on Toxicological Effects in this section of the safety data sheet.

#### Numerical Measures of Toxicity

**Acute toxicity estimate:** Not available.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

No information available.

#### Persistence and Degradability

No information available.

#### Bioaccumulative Potential

No information available.

#### Mobility in Soil

No information available.

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### 13. DISPOSAL CONSIDERATIONS

**Description of Waste Residues and Information on Their Safe Handling and Methods of Disposal, Including the Disposal of Any Contaminated Packaging**

Recover and reclaim or recycle, if practical. Should this product become a waste, dispose of in a permitted industrial landfill. Ensure that the containers are empty by the RCRA criteria prior to disposal in a permitted industrial landfill.

### 14. TRANSPORT INFORMATION

<b>UN Number</b>	Not regulated.
<b>UN Proper Shipping Name</b>	Not regulated.
<b>Transport classes</b>	Not regulated.
<b>Packing Group</b>	Not regulated.
<b>Environmental Hazards</b>	Not applicable.
<b>Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code)</b>	Not applicable.

### 15. REGULATORY INFORMATION

<b>International Inventories</b>	Australia (AICS):	Not determined.
	Canada (DSL):	All components are listed or exempted.
	China (IECSC):	Not determined.
	European Union (EINECS / ELINCS):	Not determined.
	Japan (ENCS):	Not determined.
	New Zealand (NZIoC):	Not determined.
	Philippines (PICCS):	Not determined.
	South Korea (KECL):	Not determined.
	Taiwan (NECI):	Not determined.
	United States (TSCA):	All components are listed or exempted.

### 16. OTHER INFORMATION

<b>Prepared By</b>	Product Safety Committee
<b>Revision Number</b>	2.00
<b>Revision Date</b>	06 January 2022

**Updates from Previous Revision** Updated all section to GHS format

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### Acronyms and Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstract Services (division of the American Chemical Society)
CDR	Chemical Data Reporting
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
DSL	Domestic Substances List
EC <sub>50</sub>	Half Maximal Effective Concentration
EINECS / ELINCS	European Inventory of Existing Chemical Substances / European List of Notified Chemical Substances
ENCS	Existing and New Chemical Substances
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
KECL	Korean Existing Chemical List
MARPOL 73/78	International Convention for the Prevention of Pollution from Ships
mg/kg	Milligram per kilogram
mg/l	Milligram per liter
mg/m <sup>3</sup>	Milligram per cubic meter
MSHA	Mine Safety and Health Administration
NECI	National Existing Chemical Inventory
NIOSH	National Institute for Occupational Safety and Health
NZIOC	New Zealand Inventory of Chemicals
OSHA	Occupational Safety and Health Administration, U.S. Department of Labor
PEL	Permissible Exposure Limit
PICCS	Philippines Inventory of Chemicals and Chemical Substances
ppm	Part per million
SARA	Superfund Amendments and Reauthorization Act
TWA	Time-weighted Average

**END OF SAFETY DATA SHEET**