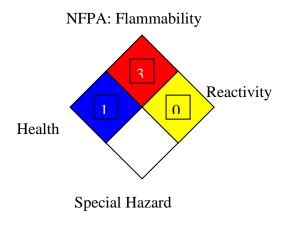


## Jordan Petroleum Refinery Company Material Safety Data Sheet IND.D.E.OIL T



## JPRC LUB-15

HMIS III:

Flammability	3
Health	1
Reactivity	0

SECTION 1. PRODUCT AND	COMPANY IDENTIFICATION
Product name:	IND.D.E.OIL T (30,40)
MSDS Number:	JPRC LUB-15
Product Use Description:	For use in moderately rated industrial diesel engines. May be used in naturally aspirated or lightly super-charged engines, having bumps up to 18 bar, and burning fuels with a sulfur content below 1.5% wt.
Company	Jordan Petroleum Refinery Amman – Jordan. TEL: + 962 6 4630151 or 4657600 FAX: + 962 6 4657934 or 4657939 P.O.BOX: 3396 Amman 11181 – Jordan P.O.BOX: 1079 Amman 11118 – Jordan Website: http://www.jopetrol.com.jo
	E-mail: <u>addewan@jopetrol.com.jo</u>

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS.	
COMPOSITION :	Base Oil GI
	Base Oil GII
	DI package
	PPD

## **SECTION 3. HAZARDS IDENTIFICATION**

Hazardous identification	
US OSHA hazard communication	Product assessed in accordance with
standard for (SN-500, BS-150):	OSHA 29 CFR 1910.1200 & determined
	to be hazardous
	Effects of over exposure: no significant
	effects expected.
	Emergency response data: black semi –
	solid. Dot ERG NO NA
SECTION 4. FIRST AID MEASUR	<b>RES</b>
First Aid Measures:	
Eye Contact	Rinse cautiously with water for several
	minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
	Immediately call a poison center or
	doctor.
Skin contact	Wash contact areas with soap & water.
	Remove contaminated clothing.
	Get medical attention if irritation
	developed. Launder contaminated
	clothing before reuse and discard leather articles saturated with the material.
Inhalation	
IIIIaiation	Remove exposed person to fresh air if adverse effects are observed. If breathing
	is labored, administer oxygen. If
	breathing has stopped, apply artificial
	respiration. If irritation persists or if toxic
	symptoms are observed, get medical
	attention.
Ingestion	Do not induce vomiting. If conscious,
ingestion	give 2 glasses of water. Get immediate
	medical attention.
SECTION 5 FIDE FIGURING ME	

## SECTION 5. FIRE-FIGHTING MEASURES

Fire- Fighting Measure	
Extinguishing media:	Carbon dioxide, foam, dry o
	water fog.
Special fire fighting procedures:	Water or foam may cause
	water to keep fire expose
	1 117 1

chemical, and

frothing. Use sed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering

Special protective equipment: Unusual fire and explosion hazards NFPA hazard ID Hazardous decomposition products	<ul> <li>streams, sewers, or drinking water supply.</li> <li>Water may cause splattering.</li> <li>For fires in enclosed areas, fire fighters must use self-contained breathing apparatus (SCBA) and full turnout gear.</li> <li>Storage tank headspace may contain flammable atmosphere.</li> <li>Flammable limits- LEL: NA, UEL: NA.</li> <li>Health : 3, Flammability : 1,</li> <li>Reactivity : 0</li> <li>Carbon monoxide, carbon dioxide, some metallic oxides.</li> </ul>
SECTION 6. ACCIDENTAL RELI	
Accidental Release Measures	<ul> <li>This material if slippery might cause traffic accident. If split on road, it must be cover with sand immediately. in the event of a spill or leak or accident person not wearing protective equipment &amp; clothing should be restricted from contaminated areas until clean up has been completed.</li> <li>the following steps should be undertaken following a spill or leak:</li> <li>1- Notify safety personal.</li> <li>2- Remove all sources of heat and ignition.</li> <li>3- Ventilate potentially explosive atmospheres.</li> <li>4- Do not touch the spilled material; stop the leak if it is possible to do so without risk.</li> <li>5- Use water spray to reduce vapors; do not get water inside container. Do not flush waste to sewers or open waterways.</li> <li>6- For liquid spills, cover with sand and then remove for later disposal.</li> <li>7- Prevent spills from entering storm sewers or drains.</li> <li>Immediately contact emergency</li> </ul>
	personnel. Keep unnecessary personnel away. Use suitable protective equipment (see section 8). Follow all fire-fighting procedures.

SECTION 7. HANDLING AND ST	SECTION 7. HANDLING AND STORAGE	
Handling: Storage	Open container in a well ventilated area. Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Wash thoroughly after handling. Keep container tightly closed. Keep container in a cool, well-ventilated area. Store away from strong oxidizing agents or combustible material.	
SECTION 8. EXPOSURE CONTR	OLS / PERSONAL PROTECTION	
Exposure controls/ personal protection		
Respiratory protection	Use full face respirator with a combination organic vapor and dust / mist cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large clean-up sites. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.	
Clothing Recommendation:	Long sleeve shirt is recommended. Use chemically protective boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse.	
Hands	Use chemical resistant apron and / or other clothing to protect against hot liquid & to avoid skin contact. Nitrile.	
Eyes	Safety goggles are considered minimum protection. Goggles with a face shield may be necessary depending on quantity of material & conditions of yours. Safety glasses.	
Engineering controls	Use material in well ventilated area only. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.	

Occupational exposure limits

Ingredient name:

Mineral oil (LZ-3589D)

Exposure limit of SN 500, BS 150 for oil mist:

 $\begin{array}{l} ACGIH \hspace{0.1cm}STEL:10 \hspace{0.1cm}mg/m^{3} \\ OSHA \hspace{0.1cm}PEL:5 \hspace{0.1cm}mg/m^{3} \end{array}$ 

 $5.00 \text{ mg/m}^3$ 

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES	
Form:	Liquid
Appearance:	Bright and Clear,
Flash point for 30(COC):	245° C
Flash point for 40 (COC):	250° C
Pour Point for 30:	-18 ° C
Pour Point for 40:	-18 ° C
BN for 30:	10.5 mg KOH/g
BN for 40:	10.5 mg KOH/g
Sulfated Ash WT% for 30:	1.35
Sulfated Ash WT% for 40:	1.35
Density for 30:	0.8955 g/cm <sup>3</sup> @ 15° C Test Method: ASTMD 1298
Density for 40:	0.8951 g/cm <sup>3</sup> @ 15 ° C Test Method: ASTMD 1298
Kinematic viscosity for 30:	11.8cSt @ 100 ° C Test Method: ASTMD 445
Kinematic viscosity for 40:	14.4 cSt @ 100 ° C Test Method: ASTMD 445
VI for 30:	102
VI for 40:	102
SECTION 10. STABILITY AND R	EACTIVITY
Stability: Material to avoid:	The product is stable. Strong oxidizing and reducing agents. Acids. Halogens and halogenated compounds.
Condition to avoid:	High temperatures, sparks, and open flames.
Thermal Decomposition:	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be formed: calcium, phosphorus, sulfur, zinc.
SECTION 11. TOXICOLOGICAL	
Routes of Entry Acute Effects	Skin, Eyes, Ingestion, and Inhalation
Inhalation	Irritating to respiratory system. May

Ingestion Skin contact Eye contact	cause nose, throat and lung irritation. Not determined. Non-irritating to the skin. Repeated or prolonged skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin. Irritating to eyes. Risk of irreversible damage to eyes.
LD <sub>50</sub> Dermal Toxicity LD <sub>50</sub> Oral Toxicity	>2000 mg/kg >5000 mg/kg
SECTION 12. ECOLOGICAL INF	
Environmental Hazards	Harmful to aquatic organisms. May cause
(SN-500, SN-150)	long- term adverse effects in the aquatic
Environmental Fate (SN-500, BS-150)	environment. Based on calculation. This product contains components which may be persistent in the environment.
SECTION 13. DISPOSAL CONSIL	DERATIONS
Waste disposal RCRA Information	Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the resource conservation and recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal. The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40CFR, Part 261D), nor is not formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosively, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.
SECTION 14. REGULATORY INF	
Risk Phrases: (LZ 3589D)	R38-Ittitating to skin. R41-Risk of serious damage to eye. R50/53-Very toxic to aquatic organisms, may cause long-term adverse effects in

	the aquatic environment. R51/53Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R62-Possible risk of impaired fertility.
SECTION 15. OTHER INFORMAT	• • • • •
LD <sub>50</sub>	Lethal Dose (mg/kg)
PEL	Permissible Exposure Limits
NFPA	National Fire Protection Association:
PPE	Personal Protective Equipment
SCBA	Self – Contained Breathing Apparatus
TWA	Time – Weighted Average.
OSHA	Occupational Safety And Health
	Administration
ACGIH	American Conference of
	Governmental Industrial Hygienists