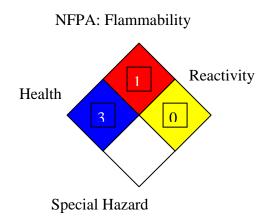


## Jordan Petroleum Refinery Company Material Safety Data Sheet SHPD 16



## JPRC LUB-10

HMIS III:

Flammability	1
Health	3
Reactivity	0

SECTION 1. PRODUCT AND CC	MPANY IDENTIFICATION
Product name:	SHPD 16 (15W/40, 20W/40)
MSDS Number:	JPRC LUB-10
Product Use Description:	For use in the highest powered naturally aspirated and turbocharged automotive diesel engines, operating under the toughest conditions, especially engines operating under conditions conductive to cylinder-bore polishing.
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.	
Virgin base oils	SN 150
	SN 500
DI additives	
VII	
PPD	

SECTION 3. HAZARDS IDENTI	FICATION
Hazardous identification	
US OSHA hazard communication	Product assessed in accordance with
standard for (SN 500, SN 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
<b>SECTION 4. FIRST AID MEASU</b>	RES
First Aid Measures:	
Eye Contact	Flush thoroughly with water for at least
	15 min. If irritation occurs , call a
	physician
Skin contact	Wash contact areas with soap & water
	Get medical attention if irritation
	developed.
Inhalation	If inhaled, remove to fresh air. If not
	breathing, give artificial respiration. If
	breathing is difficult, give oxygen. Get
	medical attention immediately.
Ingestion	If affected person is fully conscious, give
-	one glass of water to drink. Never give
	anything by mouth to an unconscious
	person. Get medical attention if
	symptoms appear.
SECTION 5 FIRE-FIGHTING M	FASURES

	symptoms uppear.
<b>SECTION 5. FIRE-FIGHTING ME</b>	EASURES
Fire- Fighting Measure	
Extinguishing media:	Carbon dioxide, foam, dry chemical, and water fog.
Special fire fighting procedures:	Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
Special protective equipment:	For fires in enclosed areas, fire fighters must use self-contained breathing apparatus (SCBA) and full turnout gear.
Unusual fire and explosion hazards	Storage tank headspace may contain

	<u>(1)</u>
	flammable atmosphere.
	Flammable limits- LEL: NA, UEL: NA.
NFPA hazard ID	Health : 3, Flammability : 1,
	Reactivity : 0
Hazardous decomposition products	Carbon monoxide, carbon dioxide, some
	metallic oxides.
SECTION 6. ACCIDENTAL REL	EASE MEASURES
Accidental Release Measures	This material if slippery might cause

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 personnel. Keep unnecessary personnel away. Use suitable protective equipment (see section 8). Follow all fire-fighting procedures.</li> </ul>
SECTION 7. HANDLING AND ST	
Handling:	Avoid contact with eyes, skin and
	clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep

Keep container tightly closed. Keep container in a cool, well-ventilated area. Store away from strong oxidizing agents or combustible material. IMO Class>

not regulated as dangerous

UN

Not applicable

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls/ personal protection	
Respiratory protection	No special requirements under ordinary conditions of use and adequate ventilation.
Skin and body	No special equipment required. However, good personal hygiene practices should always be followed.
Hands	Use chemical resistant apron and / or other clothing to protect against hot liquid & to avoid skin contact
Eyes	Normal industrial eye protection practices should be.
Engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below there respective threshold limits value.
Occupational exposure limits	•

Exposure limit of SN 500, SN 150 for oil  $5.00 \text{ mg/m}^3$  mist:

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES	
Form:	Liquid
Appearance:	Bright and Clear.
VI for 15W/40:	144
VI for 20W/50:	138
Flash point for 15W/40:	232 ° C (COC)
Flash point for 20W/50:	236 ° C (COC)
Pour Point for 15W/40:	-27 ° C
Pour Point for 20W/50:	-18 ° C
Density for 15W/40:	0.8931
Density for 20W/50:	0.89
BN 15W/40:	16
BN 20W/50:	16
Sulfated Ash 15W/40:	2.0 WT%
Sulfated Ash 20W/50:	2.0 WT%
Kinematic viscosity for 15W/40:	14.17 centi-stock @ 100 °C Test Method ASTMD 445

Kinematic viscosity for 20W/50:	14.20 centi-stock @ 100 ° C Test Method ASTMD 445
SECTION 10. STABILITY AND I	REACTIVITY
Stability:	The product is stable.
Material to avoid:	Strong oxidizing
Condition to avoid:	Extreme heat.
Hazardous decomposition products:	Sulphur oxides. Hydrogen sulphide. Carbon monoxide.
SECTION 11. TOXICOLOGICAL	INFORMATION
Routes of Entry	Skin, Eyes, Ingestion, and Inhalation
Acute Effects Inhalation	Irritating to require to my system
Ingestion	Irritating to respiratory system. Not determined.
Skin contact	Non-irritating to the skin.
Eye contact	Irritating to eyes.
LD <sub>50</sub>	>2000 mg/kg
SECTION 12. ECOLOGICAL IN	
Environmental Fate and effects:	This product is expected to be inherently
(SN 500, SN 150)	biodegradable. There is no evidence to
	suggest bioaccumulation will occur. It is
	not expected to be toxic to aquatic
	organisms. Accidental spillage may lead
	to penetration in the soil and
	groundwater. However, there is no
	evidence that this would cause adverse
SECTION 12 DISDOGAL CONST	ecological effects.
SECTION 13. DISPOSAL CONSI	
Waste disposal	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.
RCRA Information	The unused product, in our opinion, is not
	specifically listed by the EPA as a hazardous waste (40CEP, Part 261D), par
	hazardous waste (40CFR, Part 261D), nor is not formulated to contain materials
	which are listed hazardous wastes. It does
	not exhibit the hazardous characteristics
	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
SECTION 14 DECULATORY INC	regulated.
SECTION 14. REGULATORY INFORMATION	
Risk Phrases: (LZ-4986)	<ul> <li>R38-Ittitating to skin.</li> <li>R41-Risk of serious damage to eye.</li> <li>R51/53-Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.</li> <li>R50- Very toxic to aquatic organisms</li> </ul>
	R50- Very toxic to aquatic organisms.
	R62-Possible risk of impaired fertility.
SECTION 15. OTHER INFORMATION	
LD <sub>50</sub> PEL	Lethal Dose (mg/kg) 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	AmericanConferenceofGovernmentalIndustrialHygienists