



SECTION 1. PRODUCT AND CO	MPANY IDENTIFICATION
Product name:	Perfect (20W/50, 20W/40,
	10W/30,10w/40, 15W/40)
MSDS Number:	JPRC LUB-1
Product Use Description:	Perfect is recommended for use in all
	modern gasoline powered.
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 :	SN 500
	SN150
Additive package	
VII	
PPD	

## **SECTION 3. HAZARDS IDENTIFICATION** Hazardous identification US OSHA hazard communication Product assessed in accordance with standard for SN 500/150: 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 Hazard Identification for (HiTEC The preparation are classified as 9386X/HiTEC 5748): dangerous according to Directive 1999/45/EC and they are amendments. **SECTION 4. FIRST AID MEASURES** First Aid Measures: Eye Contact Flush thoroughly with water for at least 15 min. If irritation occurs, call a physician Wash contact areas with soap & water Skin contact Get medical attention if irritation developed. If inhaled, remove to fresh air. If not Inhalation 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 MEASURES

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
	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 RELEASE MEASURES

SECTION 0. ACCIDENTAL KEI	LEASE MIEASUKES
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> </ul>
Personal precautions	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable (see section 8) protective equipment. Follow all fire- fighting procedures.
SECTION 7. HANDLING AND S	0 01
Handling:	Avoid contact with ever skin and

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 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 CONTROL	OLS / PERSONAL PROTECTION
Exposure controls/ personal protection	
Respiratory protection	Use appropriate respiratory production if there is the potential to exceed the exposure limit
Skin and body	Deposable outer garments when there is the potential for contact with the material
Hands	Use chemical resistant apron and / or other clothing to protect against hot liquid & to avoid skin contact
Eyes	Safety goggles are considered minimum protection. goggles with a face shield may be necessary depending on quantity of material & conditions of yours.
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	-
Ingredient name:	ACGIH TWA : $5 \text{ mg/m}^3$
Mineral oil (HiTEC 9386X/ HiTEC 5748)	STEL : $10 \text{ mg/m}^3$ OSHA TWA : $5 \text{ mg/m}^3$
Exposure limit of SN 500/ SN150 for oil	$5.00 \text{ mg/m}^3$
mist:	
SECTION 9. PHYSICAL AND CH	IEMICAL PROPERTIES
Form:	Liquid
Appearance:	Bright and Clear, Light Brown.
VI:	131
Flash point:	224 ° C (COC)
Pour Point:	-27 ° C

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Form:	Liquid
<b>A</b> nn ao man	Dright and Clean Light Drown
Appearance:	Bright and Clear, Light Brown.
VI:	131
V 1.	151
Flash point:	224 ° C (COC)
Pour Point:	-27 °C
BN:	9 mgKOH/g
Sulfated Ash WT%:	1.20
	2
Density for Perfect 2000 20W/50 (SL):	$0.8913 \text{ g/cm}^3 @ 15 ^{\circ} \text{C}$ Test Method:
	ASTMD 1298
Density for Perfect 2000 10W/30 (SL):	$0.881 \text{ g/cm}^3 @ 15 ^{\circ} \text{C}$ Test Method:
Density for Ferreet 2000 10 W/50 (SE).	e
	ASTMD 1298
Density for Perfect 2000 15W/40 (SL):	$0.8835 \text{ g/cm}^3 @ 15 \circ \text{C}$ Test Method:
	ASTMD 1298

Kinematic viscosity:	20.6 g/cm <sup>3</sup> @ 100 ° C Test Method:
	ASTMD 445
Dynamic viscosity for Perfect 2000 10W/30:	Max 7000 centi poise @ -25 Test Method: ASTMD 5293
Dynamic viscosity for Perfect 2000 20W/60:	Max 9500 centi poise @ -15 Test Method: ASTMD 5293
Dynamic viscosity for Perfect 2000 15W/40:	Max 7000 centi poise @ -20 Test Method: ASTMD 5293
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SECTION 10. STABILITY AND R	EACTIVITY
Stability:	The product is stable.
Material to avoid:	Strong oxidizing and reducing agents.
Condition to avoid:	High temperatures, sparks, and open
	flames.
Hazardous decomposition products:	Sulphur oxides. Hydrogen sulphide.
	Carbon monoxide.
SECTION 11. TOXICOLOGICAL	INFORMATION
Routes of Entry	Skin, Eyes, Ingestion, and Inhalation
Target Organs	Contains material which may cause
	damage to the following organs: upper
	respiratory tract, skin, eyes.
Acute Effects	Literia de mariadam (Deserve)
Inhalation	Irritating to respiratory system. (Does not meet EU R37 classification criteria.)
Ingestion	Not determined.
Skin contact	Non-irritating to the skin. Repeated or
	prolonged contact with the preparation
	may cause removal of natural fat from the
	skin, resulting in non- allergic contact
	dermatitis and absorption through the
_	skin.
Eye contact	Irritating to eyes. (Dose not meet EU R41
LD <sub>50</sub>	or R36 classification criteria.) 2000 mg/kg
SECTION 12. ECOLOGICAL INF	
Environmental Hazards	Harmful to aquatic organisms. May cause
	long- term adverse effects in the aquatic
	environment. Based on calculation.
Environmental Fate	This product contains components which
	may be persistent in the environment.
SECTION 13. DISPOSAL CONSID	DERATIONS
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
	TACHINA UNE OF THESE THEFTWARK IN STATE
	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 (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
SECTION 14. REGULATORY	regulated.
Risk Phrases:	R52/53-Harmful to aquatic organisms,
(HiTEC 9386X, HiTEC 5748)	may cause long-term adverse effects in
<pre></pre>	the aquatic environment.
	R36/38- Irritating to eyes and to skin.
	R50-Very toxic to aquatic organisms.
	R51- Toxic to aquatic organisms.
Safety Phrases:	S61-Avoid release to the environment.
(HiTEC 9386X, HiTEC 5748)	Refer to special instructions/Safety data
SECTION 15 OTHER INCOD	sheets.
SECTION 15. OTHER INFORM 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
	Sovernmental industrial Hygiemsts