

Jordan Petroleum Refinery Company Material Safety Data Sheet Gear Oil

NFPA: Flammability

Health Reactivity

Special Hazard

JPRC LUB-6

HMIS III:

Flammability	1
Health	3
Reactivity	0

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Gear Oil (90, 140)
MSDS Number: JPRC LUB-6

Product Use Description: For use in automotive manual

transmission, steering gears, spiral-bevel and worm gear axles, operating under such mild conditions of low unit pressures and minimum sliding velocities, that untreated oil may be used

satisfactorily.

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: addewan@jopetrol.com.jo

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS.		
COMPOSITION:	GI base oil	
	GII base oil	
	DI package	

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 MEASURES

First Aid Measures:

Eye Contact Flush thoroughly with water .If irritation

occurs, call a physician

Skin contact Wash contact areas with soap & water.

Inhalation Not expected to be a problem.

Ingestion Not expected to be a problem when

ingested. If uncomfortable seek medical

assistance.

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures

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 & clothing should be restricted from contaminated areas until clean up has been completed.

the following steps should be undertaken following a spill or leak:

- 1- Notify safety personal.
- 2- Remove all sources of heat and ignition.
- 3- Ventilate potentially explosive atmospheres.
- 4- Do not touch the spilled material; stop the leak if it is possible to do so without risk
- 5- Use water spray to reduce vapors; do not get water inside container. Do not flush waste to sewers or open waterways.
- 6- For liquid spills, cover with sand and then remove for later disposal.
- 7- Prevent spills from entering storm sewers or drains.

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment(see section 8). Follow all firefighting procedures.

Personal precautions

SECTION 7. HANDLING AND STORAGE

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.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls/ personal protection

Respiratory protection No special requirements under ordinary

conditions of use and with 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, BS 150 for oil

 5.00 mg/m^3

mist:

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES	
Form:	Liquid
Appearance:	Bright and Clear,
VI for 90:	101
VI for 140:	100
Flash point for 90:	280 ° C (COC)
Flash point for 140:	310 °C (COC)
Pour Point for 90:	-18 °C
Pour Point for 140:	-9 °C
Density for 90:	0.8925 g/cm ³ @ 15 ° C Test Method: ASTMD 1298
Density for 140:	0.9014 g/cm ³ @ 15 ° C Test Method: ASTMD 1298
Kinematic viscosity for 90:	175 centi-stock @ 40 ° C Test Method ASTMD 445
Kinematic viscosity for 140:	100 centi-stock @ 40 ° C Test Method ASTMD 445

SECTION 10. STABILITY AND REACTIVITY

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

Acute Effects

Inhalation Irritating to respiratory system.

Ingestion Not determined.

Skin contact Non-irritating to the skin.

Eye contact Irritating to eyes. LD_{50} >2000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Environmental Fate and effects: (SN 500, BS 150)

This product is expected to be inherently 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 ecological effects.

SECTION 13. DISPOSAL CONSIDERATIONS

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 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 determined **Toxicity** as by the Leaching Characteristic Procedure (TCLP). However, used product may be regulated.

SECTION 14. OTHER INFORMATION

LD₅₀ 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.

Occupational Safety And Health Administration OSHA

ACGIH American Conference of

Governmental Industrial Hygienists