

Jordan Petroleum Refinery Company Material Safety Data Sheet AL-HASA T4

NFPA: Flammability

Health Reactivity

Special Hazard

JPRC LUB-23

HMIS III:

Flammability	1
Health	3
Reactivity	0

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: AL-HASA T4 (10W, 30, 40, 50)

MSDS Number: JPRC LUB-23

Product Use Description: Designed for use in the transmission,

final drives and differentials of heavy duty off-road construction equipment requiring a fluid that meets Cat TO-4 and Allison C-4 type fluids. Can be used also where fluids of the former TO-4 and Allison C-3 fluids are recommended. May be used in hydraulic systems of construction equipment, where engine

oils are normally used.

Company Jordan Petroleum Refinery

Amman – Jordan.

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SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS.		
Virgin Base oil	SN 500	
	SN 150	
	SN 100	
	BS 150	
DI Additives		
PPD		

SECTION 3. HAZARDS IDENTIFICATION

Hazardous identification

US OSHA hazard communication standard for SN 500, BS 150, SN 150, SN 100:

product assessed in accordance with 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 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 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. Get immediate

medical attention.

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

Special protective equipment:

supply.

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. Health: 3, Flammability: 1, Reactivity

: 0

Hazardous decomposition products

Carbon monoxide.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures

NFPA hazard ID

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 fire-fighting 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, SN 5.00 mg/m³

100 for oil mist:

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES		
Form:	Liquid	
Appearance:	Bright and Clear,	
Flash point for 10W:	216 °C (COC)	
Flash point for 30:	246 °C (COC)	
Flash point for 40:	252 ° C (COC)	
Flash point for 50:	262 ° C (COC)	
Pour Point for 10W:	-30 ° C	
Pour Point for 30:	-18 °C	
Pour Point for 40:	-15 °C	
Pour Point for 50:	-9 °C	
Density for 10W:	0.8835 g/cm ³ @ 15 ° C Test Method: ASTMD 1298	
Density for 30:	0.8974 g/cm ³ @ 15 ° C Test Method: ASTMD 1298	
Density for 40:	0.8974 g/cm ³ @ 15 ° C Test Method: ASTMD 1298	
Density for 50:	0.9035 g/cm ³ @ 15 ° C Test Method: ASTMD 1298	

Kinematic viscosity for 10W:	28.3 centi-stock @ 40 ° C Test Method
	ASTMD 445
Kinematic viscosity for 30:	94.6 centi-stock @ 40 ° C Test Method
	ASTMD 445
Kinematic viscosity for 40:	141 centi-stock @ 40 ° C Test Method
	ASTMD 445
Kinematic viscosity for 50:	227 centi-stock @ 40 ° C Test Method
	ASTMD 445

SECTION 10. STABILITY AND REACTIVITY

Stability: The product is stable.

Material to avoid: Acids. Oxidizing agents.

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 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: This product is expected to be inherently (SN 500, BS 150, SN150, SN 100) 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 characteristics product at time

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

SECTION 14. REGULATORY INFORMATION

Risk Phrases: R36/38-Irritating to eyes, Irritating to (LZ-9692A)

R43-May causes sensitization by skin

contact.

regulated.

R50-Very toxic to aquatic organisms. R51/53Toxic to aquatic organisms may cause long-term adverse effects in the

aquatic environment.

R62-Possible risk of impaired fertility.

SECTION 15. OTHER INFORMATION

Lethal Dose (mg/kg) LD_{50}

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 **OSHA** Health

Administration

ACGIH American Conference of

Governmental Industrial Hygienists

RCRA Information