

HYDROTUR AW 46**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY**

Product Name	HYDROTUR AW 46
Manufacturer	PETRON CORPORATION JESUS ST., PANDACAN, MANILA PHILIPPINES
Product Type	Petroleum Hydrocarbons with Additives
Recommended Use	Hydraulic Fluid
Telephone No.	(632) 8-884-9200
Website	www.petron.com

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION Not Classified as Hazardous Substance

GHS LABELING

Pictogram	No symbol
Signal Word	No signal word
Hazard Statement	No hazard statement
Other Hazard Information:	
Health Hazards	Not expected to be a health hazard when used under normal conditions.
Physical / Chemical Hazards	No significant hazards.
Environmental Hazards	Not classified as dangerous to the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition	CAS Number	%Weight
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	99.0 – 99.9
Zinc dithiophosphate	4259-15-8	<0.5

In general, the product does not contain components that may be a significant health and safety hazard as long as normal precautions in handling petroleum products are observed and good standards of industrial and personal hygiene are maintained.

SECTION 4: FIRST AID MEASURES

Eye Contact	Immediately flush eyes with large amount of water for at least 15 minutes or until irritation subsides. If irritation persists, get prompt medical attention.
Skin Contact	Immediately flush with large amount of water; use soap if available. Remove contaminated clothing, including shoes, and launder before reuse.



Inhalation	This product has low vapor pressure and is not expected to present an inhalation problem at ambient temperature. However, if overexposed to oil mist, using proper respiratory protection, immediately remove the affected person immediately to fresh air. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.
Ingestion	If swallowed, DO NOT induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get immediate medical attention. DO NOT attempt to give anything by mouth to an unconscious person.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point, COC, °C	230
Extinguishing Media	In case of fire use foam, carbon dioxide or dry chemical extinguishers.
Special Fire-fighting Procedures	Water jets should not be used directly on igniting products. Avoid spraying water directly into storage containers due to danger of over-boil. However, water may be used to cool exposed containers, structures and equipment adjacent to fire. Respiratory and eye protection required for fire-fighting personnel.
Decomposition Products Under Fire Conditions	Fumes, smoke, oxides of sulfur, nitrogen, carbon and other toxic gases may be formed.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Land Spill	Taking normal safety precaution, eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills, implement cleanup procedures. For large spills, implement clean-up procedures and, if in public area, keep public away and advise authorities. Prevent liquid from entering sewers, water courses, or low areas. Contain spilled liquid with sand or earth. Recover by pumping or with a suitable absorbent. If liquid is too viscous for pumping, scrape up. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
Water Spill	Use booms to confine spills immediately. Remove from water surface by skimming or with suitable adsorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

SECTION 7: HANDLING AND STORAGE

Handling Procedures	Keep away from potential sources of ignition. Open container in a well-ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Wash thoroughly after handling. "Empty" containers with retained product residue (liquid or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks, static electricity or other sources of ignition; they may explode and cause death or injury. Empty drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner, or properly disposed off.
Storage Procedures	Do not store near potential sources of ignition. Store in a well-ventilated area. Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 60°C for extended periods of time or if heat sources in excess of 70°C are used.



SECTION 8:**EXPOSURE CONTROLS AND PERSONAL PROTECTION****Exposure Controls**

The following are the exposure limits for the major components of this product (when mists/aerosol may occur).

Component	CAS-No.	Source	Value
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	ACGIH	Not available

Personal Protection

Ventilation Procedures	The use of local exhaust ventilation is recommended to control mists or vapors. Additional ventilation or exhaust may be required to maintain air concentrations below exposure limits.
Gloves Protection	Use chemical resistant gloves.
Eye Protection	Where contact may occur, wear safety glasses with side shields.
Respiratory Protection	Use NIOSH/OSHA approved full-face respirator with a combination organic vapor and high efficiency filter 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 spill clean-up sites.
Clothing Recommendation	Wear either a chemical protective suit or apron when potential for contact with material exists. Use neoprene or nitrile rubber 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.

SECTION 9:**PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear
Odor	Characteristic of petroleum products
Kinematic Viscosity at 40°C, cSt	48.00
Kinematic Viscosity at 100°C, cSt	6.860
Density at 15°C, kg/L	0.8790
Flash Point, °C	230
pH	No data
Boiling Point, °C	No data
Melting Point, °C	No data
Vapor Pressure, kPa	No data
Vapor Density	No data
Solubility in Water	Insoluble
Evaporation Rate	No data
Flammability	Not flammable
Partition Coefficient	No data
Auto-ignition Temperature, C	No data
Decomposition Temperature, C	No data
Explosion limits	No data



SECTION 10: STABILITY AND REACTIVITY

Stability	This product is stable under recommended storage and handling conditions.
Incompatibility	Not available
Polymerization	Not Applicable

SECTION 11: TOXICOLOGICAL INFORMATION

Basis for Assessment: Information given is based on data on the components and the toxicology of similar products.

Acute Toxicity

Distillates (Petroleum)
Hydrotreated heavy
paraffinic

Oral, LD50	>5000 mg/kg (Rat)
Dermal, LD50	>2000 mg/kg (Rat)
Inhalation, Mist LC50	2.18 mg/L 4hr (Rat)

Zinc Dithiophosphate

Oral, LD50	3100 mg/kg (Rat)
Dermal, LD50	>5000 mg/kg (Rabbit)
Inhalation, Mist LC50	None

Acute Inhalation Toxicity Not classified to be an inhalation hazard under normal conditions of use.

Skin Corrosion/Irritation Low order of toxicity. Frequent or prolonged contact may cause mild skin discomfort.

Serious Eye Damage/Irritation Slight irritation might occur.

Respiratory/Skin Sensitization There was no evidence of skin sensitization when the product was applied to human skin.

Germ Cell Mutagenicity No available information

Aspiration Hazard Minimal toxicity

Carcinogenicity EU classification of carcinogenicity of petroleum distillates used does not apply since product does not contain DMSO extract beyond 3% according to INCHEM.

Reproductive Toxicity No available information

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Acute Toxicity

Distillates (petroleum) hydrotreated heavy paraffinic

Fish (LC ₅₀ /96-hours)	>5000 mg/L (Oncorhynchus)
Crustaceans (EC ₅₀ /48-hours)	1,000 mg/L (Daphnia magna)
Algae (EC ₅₀ /96-hours)	>1000 mg/L (Scenedesmus)

Environmental Mobility Oil component of this product floats and can migrate from water to land.

Environmental Degradability Data have not been determined specifically for this product, but it is not expected that it will be "readily" biodegradable.



Ecotoxicity & Bioaccumulation Data have not been determined specifically for this product, but it is not expected to be harmful to aquatic organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Material, if discarded, is expected to be hazardous waste due to toxicity. Waste management should be in compliance with local and national regulations.

Local Legislation Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: TRANSPORT INFORMATION

Air (ICAO/IATA). This product is not regulated for air transport.

Land This product is not regulated for road/rail transport.

Sea IMDG (Packaged Goods and BLCs). This product is not regulated for sea transport

SECTION 15: REGULATORY INFORMATION

Material is non-hazardous chemical under Occupational Safety and Health (Classification, Labeling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

The Chemical Substances present in this product are listed under Philippine Inventory of Chemicals and Chemical Substance (PICCS).

SECTION 16: OTHER INFORMATION

Approvals Research and Development Department
Petron Corporation

This safety data sheet contains the following revisions **10**

This is a computer-generated form and does not require a signature.

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