

PETROMAR HF 2040**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY**

Product Name	PETROMAR HF 2040
Product Type	Petroleum Hydrocarbons with Additives
Recommended Use	Marine Trunk Piston Engine Oil
Company Information	PETRON CORPORATION San Miguel Head Office Complex 40 San Miguel Avenue, Mandaluyong City PHILIPPINES
General Contact Numbers	(632) 802-7777
Website	www.petron.com

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION	Classified as non-hazardous substance.
GHS LABELING	No Hazard Symbol Required
Other Hazard Information:	
Physical / Chemical Hazards	No significant hazards.
Health Hazards	Not expected to be a health hazard when used under normal conditions.
Environmental Hazards	Not classified as dangerous to the environment

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition	CAS Number	% Weight
Distillates (Petroleum) solvent refined heavy paraffinic	64742-65-0	64.5 - 80
Residual oil (petroleum) solvent dewaxed	64742-57-0	18.5 – 25.0
Zinc Alkyl dithiophosphate	68457-79-4	< 0.60

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 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	266
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

Components	CAS-No.	Source	Value
Distillates (Petroleum) solvent-refined heavy paraffinic	64742-65-0	ACGIH	5mg/m ³ 10 mg/m ³ (STEL)
		OSHA	5mg/m ³
Residual oil (petroleum) solvent dewaxed	64742-62-7	ACGIH	5 mg/m ³ , TLV
Zinc Alkyl Dithiophosphate	68649-42-3	ACGIH	5 mg/m ³ (TLV) 10 mg/m ³ (STEL)
		OSHA	5 mg/m ³ (PEL)

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.
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.
Hand Protection	Use chemical resistant gloves.
Eye Protection	Where contact may occur, wear safety glasses with side shields.
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	Dark Liquid
Odor	Characteristic of petroleum products
Kinematic Viscosity at 40°C, cSt	147.0
Kinematic Viscosity at 100°C, cSt	14.86
Specific Gravity at 60°F	0.9024
Flash Point, °C	266
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	Non flammable
Partition Coefficient	No data
Auto-ignition Temp, °C	No data
Decomposition Temp, °C	No data
Explosion limits	No data

Other Information:

DMSO extract by IP346 : Less than 3.0 wt% (mineral oil component only)

SECTION 10: STABILITY AND REACTIVITY

Stability	This product is stable and hazardous polymerization will not occur.
Incompatibility	Strong oxidizing agents
Polymerization	Not Applicable

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Distillates (Petroleum) solvent-refined heavy paraffinic	Oral, LD50	>5000 mg/kg
	Dermal, LD50	>2000 mg/kg
	Inhalation, LC50	2.18 mg/L
Residual oil (petroleum) solvent dewaxed	Oral, LD50	>5000 mg/kg
	Dermal, LD50	>2000 mg/kg
	Inhalation, LC50	>4 mg/L

Skin Corrosion/Irritation	Low order of toxicity. Frequent or prolonged contact may cause mild skin discomfort.
Serious Eye Damage/Irritation	Will cause eye discomfort; may injure eye tissue if not removed promptly
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
Specific Target Organ Toxicity	If overheated especially in the presence of water, hydrogen sulfide may be released. This can cause respiratory collapse, coma, even death without necessarily any odor being sensed. Avoid breathing vapor or mists. Repeated and prolonged over-exposure to oil mists may result in droplet



deposition, oil granuloma formation, inflammation and increased incidence of infection.

SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicological 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.

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 It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

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

SECTION 14: TRANSPORT INFORMATION

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

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

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

1

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

The information and recommendations contained herein are based on the data sheet and sources believed to be accurate and correct and Petron makes no expressed or implied warranty with respect to the accuracy of the information or the suitability of the recommendations contained in the SDS. It is your responsibility to contact Petron to ensure that this document is the most current available from Petron. The information and recommendations are offered for the user's consideration and examination. It is the user's full responsibility to satisfy itself that the product is suitable for the intended use and to ensure the safe handling and use of the product. If the user repackages this product, it is the user's responsibility to ensure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Petron accepts no responsibility and hereby disclaim all liability for any harmful effects which may be caused by purchase, resale, use, exposure or disposal of the product. Users must comply with all local laws and regulations. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. The term, "Petron" is used for convenience, and may include any one or more of Petron Corporation, Petron Oil & Gas International Sdn Bhd or any affiliates in which they directly or indirectly hold any interest. In no event, shall Petron or its suppliers be liable for any direct or indirect loss of profits or for any other special, indirect or consequential damages, nor shall the liability of Petron on any claim for damages arising out of or connected with the sale, delivery or use of the product purchased exceed the purchase price of the product.

