


PETRON GREASE HTP

SECTION 1:	IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY
Product Name	PREMIUM LITHIUM COMPLEX 2
Product Type	Lithium Complex-Based Grease
Recommended Use	Grease Applications for High Load, High Pressure Conditions
Company Information	PETRON CORPORATION San Miguel Head Office Complex 40 San Miguel Avenue, Mandaluyong City PHILIPPINES
General Contact Numbers	(02) 8-884-9200
Website	www.petron.com

SECTION 2:	HAZARDS IDENTIFICATION
GHS CLASSIFICATION	Skin Corrosion/Irritation, Category 2
GHS LABELING	
Symbols	
Signal Word	Warning
Hazard Statements	H315 Causes skin irritation

PRECAUTIONARY STATEMENTS

General Precautionary Statements

- P101 If medical advice is needed, have product container or label at hand
- P102 Keep out of reach of children
- P103 Read label before use

Prevention Precautionary Statements

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P260 Do not breathe mist/vapors/spray
- P264 Wash hands thoroughly after handling
- P270 Do not drink, eat, or smoke when using the product
- P271 Use only outdoors or in a well-ventilated area
- P273 Avoid release to the environment
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P281 Use personal protective equipment as required

Response Precautionary Statements

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water



P304 + P340	IF INHALED: Remove victim to a fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308 + P313	If exposed or concerned: Get medical advice/attention
P309 + P311	If exposed or if you feel unwell: Call a Poison Center or doctor/physician
P312	Call a POISON Center or doctor/physician if you feel unwell
P314	Get medical advice/attention if you feel unwell
P332 + p313	If skin irritation occurs: Get medical advice/attention
P337 + P313	If eye irritation persists: Get medical advice/attention
P362	Take off contaminated clothing and wash before use

Storage Precautionary Statements

P403 + P233	Store in a well-ventilated place. Keep container tightly closed
P405	Store locked up

Disposal Precautionary Statements

P501	Dispose of contents/container in accordance with local/regional/national/international regulations
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition	CAS Number	% Weight
Distillates (Petroleum) solvent refined heavy paraffinic	64741-88-4	67 – 81
12-Hydroxystearic acid	106-14-9	10 -15
Lithium Hydroxide	1310-66-3	2 - 5
Azaleic Acid	12399-9	6 - 10
Zinc dialkyl dithiophosphate	68649-42-3	1 – 3

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 and shoes, and launder before reuse.
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.
Inhalation	This product 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.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media	In case of fire use foam, carbon dioxide or dry chemical extinguishers.
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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 material from entering sewers, water courses, or low areas. Contain spilled material with sand or earth. Recover by scraping. 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

Store in a cool dry place with adequate ventilation. Keep at temperature not exceeding 50°C. Keep containers away from sparks, flame and strong oxidants.

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

Components	CAS-No.	Source	Value
12-Hydroxystearic acid	106-14-9		6mg/m ³ max
Distillates (Petroleum) solvent refined heavy paraffinic	64741-88-4	ACGIH	5 mg/m ³
		OSHA	10 mg/m ³ (STEL) 5 mg/m ³



Lithium Hydroxide	1310-66-3	UK WEL	1mg/m ³ (STEL)
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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	Respiratory protection is not required under conditions of normal use. If vapor or mist generated when the materials are heated or handled, use an organic vapor respirator with dust and mist filter. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.
Skin Protection	No skin protection is required for single, short duration, exposures. For prolonged, repeated exposures and if handling hot materials, use impervious clothing (boots, aprons, etc.) over parts of the body subject to exposure.
Eye Protection	Eye protection is not required under conditions of normal use. If materials are handled such that they could be splashed into the eyes, wear plastic face shield or splash-proof safety goggles.
Others	Consumption of food and beverage should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating and drinking.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Uniform / Smooth
Odor	Characteristic of petroleum products
Specific Gravity at 60°F	No data
Flash Pt, °C	No data
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	No data
Partition Coefficient	No data
Auto-ignition Temp, °C	No data
Decomposition Temp, °C	No data
Explosion limits	No data

SECTION 10: STABILITY AND REACTIVITY



Stability (Thermal, Light, etc.)	Stable
Incompatibility	Strong oxidizing agents
Polymerization	Not Applicable

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Lithium Hydroxide	Oral, LD50	210 mg/kg
	Inhalation, LC50	0.96 mg/L
Distillates (Petroleum) solvent refined heavy paraffinic	Oral, LD50	>5000 mg/kg
	Dermal, LD50	>2000 mg/kg
	Inhalation, LC50	2.18 mg/L air
Azaleic Acid	Oral, LD50	>5 g/kg (rat)

Primary Entry Routes Eye contact, skin contact or absorption, inhalation of vapors

Target Organs Eyes, skin, respiratory system

Skin Corrosion/Irritation Low order of toxicity. Prolonged or repeated contact may result in the defatting of skin, leading to irritation and possibly dermatitis.

Distillates (Petroleum) solvent refined heavy paraffinic	Non-irritating
Lithium Hydroxide	Corrosive
Residual oil (petroleum) solvent dewaxed	Slightly Irritating
Hydrated Lime	Non-irritating

Serious Eye Damage/Irritation Slightly irritating on direct contact

Distillates (Petroleum) solvent refined heavy paraffinic	Non-irritating
Residual oil (petroleum) solvent dewaxed	Non-Irritating
Azaleic Acid	Mild irritant

Respiratory/Skin Sensitization No available information



Germ Cell Mutagenicity	No available information
Aspiration Hazard	Minimal toxicity
Carcinogenicity	No available information
Reproductive Toxicity	No available information
Inhalation	Product has low vapor pressure and is not expected to present an inhalation hazard at ambient conditions. Caution should be taken to prevent misting of this product. Exposures below 5 mg/m ³ appear to be without significant health risk.
Specific Target Organ Toxicity	Greases consist of solid or semi-solid dispersions of metallic soaps and other thickeners in base oils. Long-term exposure to small doses of base oil by inhalation, aspiration or ingestion can lead to lipid pneumonia or lipid granuloma of the lung. These are low-grade, chronic, localized tissue reactions. Shortness of breath and cough are most common symptoms.

SECTION 12: ECOLOGICAL INFORMATION

Acute Toxicity

Distillates (Petroleum) solvent-refined heavy paraffinic

Fish (LL ₅₀ /96-hours)	>100 mg/L (Pimephales promelas)
Crustaceans (EL ₅₀ /48-hours)	1000 mg/L (Daphnia magna)
Algae (EC ₅₀ /72-hours)	>1000 mg/L (Scenedesmus subspicatus)

12-Hydrostearic Acid

Fish (EC ₅₀ /96-hours)	>1000 mg/L (Brachydanio rerio)
Crustaceans (EC ₅₀ /48 hours)	100 mg/L (Daphnia magna)
Algae (NOEC/72-hours)	>100 mg/L (Pseudokirchneriella)

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 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.
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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 under Occupational Safety and Health (Classification, Labeling, and Safety Data Sheet of Hazardous Chemical) Regulations 2013.

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

SECTION 16: OTHER INFORMATION

Approvals Research and Development Department
Petron Corporation

This safety data sheet contains the following revisions **3**

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

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