

PETROMATE PENETRATING OIL

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product Name	PETROMATE PENETRATING OIL
Product Type	Petroleum Hydrocarbons with Additives
Recommended Use	Multipurpose Anti-rust Spray
Company Information	PETRON CORPORATION San Miguel Head Office Complex 40 San Miguel Avenue, Mandaluyong City PHILIPPINES
General Contact Numbers	(632) 8-884-9200
Website	www.petron.com

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION	Flammable Liquids, Category 3 Acute Toxicity - Inhalation, Category 4 Skin Corrosion/Irritation, Category 3 Serious Eye Damage/Eye Irritation, Category 2B Carcinogenicity, Category 2 Specific Target Organ Toxicity (Repeated Exposure), Category 2 (Skin, lungs, blood, liver, CNS, stomach) Hazardous to the Aquatic Environment Acute Hazard, Category 3 Chronic Hazard, Category 3
GHS LABELING	

Symbol(s)



Signal Word Warning

Hazard Statements	H226	Flammable liquid and vapor
	H332	Harmful if inhaled
	H316	Causes mild skin irritation
	H320	Causes eye irritation
	H351	Suspected of causing cancer
	H373	May cause damage to organs (skin, lungs, blood, liver, CNS) through prolonged or repeated exposure
	H412	Harmful to aquatic life with long lasting effects

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

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/lighting equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye and face protection

Response Precautionary Statements

P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P312	IF INHALED: Call a Poison Center or doctor/physician if you feel unwell
P312	Call a Poison Center or doctor/physician if you feel unwell
P370 + P378	In case of fire: Use foam, dry chemical or water spray for extinction

Storage Precautionary Statements

P403 + P235	Store in well-ventilated place, Keep Cool
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Disposal Precautionary Statement

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	70 - 80
Naphtha (petroleum) hydrosulfurized heavy	64742-82-1	10 - 20
Calcium dinonylnaphthalene sulphonate	57855-77-3	< 3
Refined Coconut Oil	8001-31-8	< 2
2-Butoxyethanol	111-76-2	< 4
1,2,4-trimethylbenzene	95-63-6	< 1

In general, the product contain components that may be a significant health and safety hazard thus proper handling petroleum products and observing precautions must be observed and good standards of industrial and personal hygiene must be maintained.

SECTION 4: FIRST AID MEASURES

Eye Contact	Rinse eyes immediately with plenty of water for at least 15 minutes or until irritation subsides. If irritation persists, get prompt medical attention.
Skin Contact	Immediately clean contaminated skin with soap and water. Remove contaminated clothing and shoes, and launder before reuse.
Ingestion	If swallowed, DO NOT induce vomiting. Keep at rest and call for medical attention if necessary.
Inhalation	If overexposed to oil mist, remove affected person immediately to fresh air. Administer artificial respiration if breathing is irregular or has stopped. Call for prompt medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point, °C	57
Significant Information	This product is a combustible liquid and can form combustible mixtures at temperatures at or above the flashpoint. Material can accumulate static discharges, which can cause an incendiary electrical discharge.
Extinguishing Media	In case of fire, use foam, dry chemical or water spray.
Special Fire-Fighting Procedures	Avoid spraying water directly into storage containers due to danger of boil-over. This liquid is volatile and gives off invisible vapors. Either the liquid vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.
Decomposition Products under Fire Conditions	A complex mixture of gases will be formed when this product undergoes combustion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Land Spill	Taking normal safety precaution, shut off source of product. Prevent the liquid from entering sewers, water courses or low lying areas. Advise the relevant authorities, taking measures to minimize the effects on ground water. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. Ensure conformity with local regulations on disposal of recovered material.
Water Spill	Use booms to confine spills immediately. Remove from the water surface by skimming or with suitable absorbents. If permitted by local authorities and environmental agencies, disperse the residue in unconfined 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. Prevent small spills and leakages to avoid slip hazard. 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 cool, well ventilated areas, away from sources of ignition.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Controls

Components	CAS-No.	Source	Value
Naphtha (petroleum) hydrosulfurized heavy	64742-82-1	OSHA	350 mg/m ³
Distillates (Petroleum) solvent refined heavy paraffinic	64741-88-4	OSHA ACGIH	5mg/m ³ 5mg/m ³ 10 mg/m ³ (STEL)



1,2,4-trimethylbenzene	95-63-6	OSHA ACGIH	120 mg/m ³ 125 mg/m ³
2-Butoxyethanol	111-76-2	OSHA ACGIH	50 ppm skin (PEL) 20 ppm (TWA)

Personal Protection

Ventilation Procedures	Use local exhaust ventilation 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	In case of splashing, 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	Clear
Odor	Characteristic of petroleum products
Density at 15°C	0.8540
Flash Point, °C	57
Boiling Point, °C	Not determined
Melting Point, °C	Not determined
Vapor Pressure, kPa	Not determined
Vapor Density	Not determined
Solubility in Water	Insoluble
Evaporation Rate	Not determined
Flammability	Flammable
Partition Coefficient	Not determined
Auto-ignition Temp, °C	Not determined
Decomposition Temp, °C	Not determined
Explosion limits	Not determined

SECTION 10: STABILITY AND REACTIVITY

Stability	Material is stable at normal conditions at ambient temperature.
Incompatibility	May react with strong oxidizing agents.
Polymerization	Will not occur.
Hazardous Decomposition	In case of combustion or thermal decomposition, carbon monoxide and



Products other gases may be formed.

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
1,2,4-trimethylbenzene	Oral, LD50	5000 mg/kg
	Inhalation, LC50	18 mg/L
2-Butoxyethanol	Oral, LD50	470mg/kg
	Dermal, LD50	220mg/kg
	Inhalation, LC50	440 ppm (Exposure Time: 4 hrs)
Naphtha (petroleum) hydrosulfurized heavy	Oral, LD50	2000 mg/kg
	Dermal, LD50	2000 mg/kg
	Inhalation, LC50	5.2 mg/L
Coconut Oil	Oral, LD50	>5000 mg/kg
	Dermal, LD50	>3000 mg/kg

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 If mists are inhaled, slight irritation of the respiratory tract may occur. Studies indicate no signs of sensitization.

Germ Cell Mutagenicity Not expected to be a mutagen

Aspiration Hazard Ingestion is an unlikely event. However, accidental ingestion can lead to vomiting and aspiration into the lungs. This can result in chemical pneumonitis, which can be fatal.

Carcinogenicity

Distillates (Petroleum) solvent refined heavy paraffinic Suspected of causing cancer
Classified by EU, Institute for Health & Consumer Protection as Carcinogenic Category 2; INCHEM similarly classifies as may cause cancer.

Reproductive Toxicity Not expected to be a mutagen

Specific Target Organ Toxicity Negligible hazard under ambient temperature conditions (-18 to 38°C; 0 to 100°F). 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

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)
Naphtha (petroleum) hydrosulfurized heavy Crustaceans (LC ₅₀ /96-hours)	4.3 mg/L (Crangon crangon)
2-Butoxyethanol	
Fish (LC ₅₀ /24-hours)	1700 mg/L (Carassius auratus)
Crustaceans (LC ₅₀ /96-hours)	550 - 950 mg/L (Crangon crangon)
Algae (LOEC/7-days)	900 mg/L (Scenedesmus quadricauda)

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. The product may be burned as fuel under controlled conditions and should be in compliance with local and national waste management regulations.
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SECTION 14: TRANSPORT INFORMATION

UN	
UN Number	1268
Packing Group	II
Hazard Class	3
IMDG	
UN Number	1268
Hazard Class	3
Packaging Group	II
IMDG-Labels	3
EmS	F-E-S-E
IATA Cargo Transport	
UN Number	1268
Hazard Class	3
Packaging Group	II
IATA Cargo Transport	
ICAO UN Number	1268
ICAO Packing Group	II
ICAO Hazard Class	3
Label	Flammable liquid



SECTION 15: REGULATORY INFORMATION



Material is 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
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Approvals	Research and Development Department Petron Corporation
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This safety data sheet contains the following revisions **4**

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