

Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PT Maxnitron Gear Oil GL-5 SAE 90, 140

Product Use: Transmission Gear Oil

Company Identification: **PTG Energy Public Company Limited**
90 CW TOWER A (33rd Floor),
Ratchadaphisek Rd., HuayKwang, HuayKwang,
Bangkok, Thailand 10310

Emergency Call: 0-2168-3377, 0-2168-3388

Website: <https://www.ptgenergy.co.th/> ; <http://www.ptgenergy.co.th/ptmaxnitron/>

SECTION 2: HAZARDS IDENTIFICATION

EC No 1272/2008: This product is not classified as dangerous according to Regulation (EC) No 1272/2008. (CLP)

Directive 67/548/EEC: This product is not classified as dangerous according to EU Directive 67/548/EEC.

GHS: Not classified

Label Elements: Not applicable

Other Hazards: Not applicable

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	EC Number	Percent Weight
Refined Mineral Oil	Commercial	-	> 94
Additives	Commercial	-	< 6

*Contains less than 3% DMSO-extract.

SECTION 4: FIRST AID MEASURES

Skin Exposure: Flood skin with running water, cover with clean cotton or gauze, obtain medical advice immediately.

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Eyes Exposure:	Flood eyes with fresh running water. In the event of any product remaining, do not try to remove it other than by continued irrigation with water. Obtain medical attention immediately.
Inhalation:	If inhalation of mists, fumes or vapor causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.
Ingestion:	If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, DO NOT induce vomiting; persist obtain medical advice.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Agents:	Dry chemical powder, foam, water fog or carbon dioxide. DO NOT USE water jets.
Hazards During Fire-Fighting:	Carbon monoxide, carbon dioxide, phosphorus (POx), sulfur oxides (SOx), other pyrolysis products typical of burning organic material.
Protective Equipment:	Insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid inhalation and direct contact.
Emergency Procedure:	<ul style="list-style-type: none"><input type="checkbox"/> Spill or Leak:<ul style="list-style-type: none"><input type="checkbox"/> Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area)<input type="checkbox"/> Do NOT direct water at spill or source of leak.<input type="checkbox"/> Clean up all spills immediately.<input type="checkbox"/> Do not touch or walk through spilled material.<input type="checkbox"/> Stop leak if you can do it without risk.<input type="checkbox"/> If possible, turn leaking containers so that gas escapes rather than liquid.
Clean-Up:	Ventilate area. Collect in closed containers for disposal. Minimize water use for cleaning.
CAUTION:	When in contact with this substance, many materials become brittle and are likely to break without warning.

SECTION 7: HANDLING AND STORAGE

Handling:	Use with adequate ventilation. Use personal protective equipment as required. Handle in accordance with good industrial hygiene and
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Storage Conditions:

safety procedures. Ground/bond container and receiving equipment. Use only non-sparking tools.

Store under cover away from moisture and sources of ignition. Do not overheat in storage. Under no circumstances should water be allowed to contact hot product because of the danger of boil-over. Particular care should be taken to ensure that bulk storage tanks are watertight and that any steam heating coils are regularly checked for leaks.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION
Exposure Limits

Chemical Name	Reference	TWA	
		ppm	mg/m3
Refined Mineral Oil	US-OSHA (PELs)	-	5
	Australia exposure standard	-	5

Personal Protective Equipment

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Eye Protection: Wear safety glasses with side shields, goggles or face shield.

Protective Clothing: Wear suitable protective clothing and gloves.

Ventilation: Provide adequate ventilation when processing material at elevated temperatures.

Other Protective Equipment: N/A

Engineering Controls: Provide mechanical ventilation; in general such ventilation should be provided at compounding/ converting areas and at fabricating/ filling work stations where the material is heated. Local exhaust ventilation should be used over and in the vicinity of machinery involved in handling the molten material.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical Description: Liquid

Color: Bright and Clear

Odor: Characteristic Odor of Oil

pH: Not Applicable

Vapor Pressure: Not Available

Vapor Density: Not Applicable

Boiling Point: Not Available

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Melting Point:	Not Applicable
Flow Point:	Not Available
Flash Point:	220, 240 °C (follow up product number)
Auto-Ignition:	No Data Available
Solubility in Water:	Miscible in Common Solvents
Specific Gravity:	Not Applicable
Relative Density:	0.894, 0.900 g/cm ³ (follow up product number)
Viscosity:	18.5, 29.0 cSt @ 100°C (follow up product number)
Octanol / Water Partition Coefficient:	Not Available
Evaporation Rate:	Not Available

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable under normal ambient temperature
Condition Avoid:	Heating causes evaporation of flammable vapors.
Material to Avoid:	May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Dangerous Decomposition:	Incomplete combustion will generate smoke, toxic fume, carbon dioxide and hazardous gases, including carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	Route	Species	Acute Toxic Value
Refined Mineral Oil	Oral	Rat	LC ₅₀ 620 g/m ³ /4h
	Dermal	Rabbit	LC ₅₀ 75 pph/15 m
	Inhalation	Rat	LC ₅₀ 2.18 mg/m ³ /4h

Irritating / Corrosive Effects

Eye Irritation:	Cause burns if hot material contacts eyes.
Skin Irritation:	Prolonged or repeated skin contact may eventually result in dermatitis or more serious irreversible skin disorders.
Inhalation:	Inhalation of vapors or aerosols (mists, fumes), generated by the materials during the course of normal handling, may be damaging to the health of the individual.

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Ingestion: If accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhea.

Other Information: N/A

SECTION 12: ECOLOGICAL INFORMATION

Eco-Toxicity

Chemical Name	Eco-Toxic value
Refined Mineral Oil	LC ₅₀ >5000 mg/l/96h: <i>Oncorhynchus mykiss</i> Fresh water fish (OECD Guide-line 203)
	EC ₅₀ >1000 mg/l/48h: <i>Daphnia magna</i> Crustacea (OECD Guide-line 202)

Persistence and Degradability: Expected to be readily biodegradable but the product contains components that may persist in the environment.

Bio-Accumulate Potential: Product is not likely to accumulate in biological organisms.

Mobility in Soil: The product will absorb to the soil particles and will not be mobile

Other Adverse Effects: Films formed on water may affect oxygen transfer and damage organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods:

Dispose in accordance with all applicable regulations. Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Recycle containers if possible, or dispose of in an authorized landfill.

SECTION 14: TRANSPORT INFORMATION

Regulatory Information	UN Number	Class	Packing Group	Label	Proper Shipping Name
DOT	-	-	-	-	-
ADR / RID	-	-	-	-	-

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IMDG CODE	-	-	-	-	-
ICAO / IATA	-	-	-	-	-

SECTION 15: REGULATORY INFORMATION

European Inventory of Existing Commercial Chemical Substances (EINECS):

The components of this product are on the EINECS inventory or are exempt from inventory requirements.

Directive 67/548/EEC: This substance is not classified in the Annex I of Directive 67/548/EEC

US Toxic Substances Control Act:

This product and/or its components are not on the TSCA Inventory.

NFPA - USA:

Health – 2, Flammability – 2, Reactivity – 0

Canada – WHMIS:

This product does not meet WHMIS classification criteria.

SECTION 16: OTHER INFORMATION

DOT:	Department of Transportation
ADR:	European agreement concerning the international carriage of dangerous goods by road.
RID:	Regulations concerning the International carriage of Dangerous goods by rail.
IMDG_CODE:	International Maritime Dangerous Goods Code
ICAO:	International Civil Aviation Organization
IATA:	International Air Transport Association
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
NFPA:	National Fire Protection Association
WHMIS:	Workplace Hazardous Materials Information System

The information above is believed to be accurate and represents the best of our knowledge, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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