

Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PT Maxnitron Gear GL-4 SAE 90

Product Use: Gear GL-4
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

Classification according to Regulation (EC) No. 1272/2008 (CLP) and GHS Classification:

This product is not classified as dangerous according to Regulation (EC) No 1272/2008 and GHS

Pictogram: Not Applicable
Signal Word: Not Applicable
Hazard Statement: -
Precautionary Statement: -

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS NUMBER	EC Number	Percent weight
Base Oil Group I	Commercial	-	≥ 97
Additives	Commercial	-	≤ 3

SECTION 4 : FIRST AID MEASURES

Skin Exposure: Flood skin with running water for 15 minutes, cover with clean cotton or gauze, and obtain medical advice immediately.

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.

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- Inhalation:** If inhalation of mists, fumes or vapor causes irritation to the nose or throat, or coughing, remove to fresh air.
- Inhalation:** If contamination of the mouth occurs, wash out thoroughly with water. DO NOT induce vomiting.

SECTION 5 : FIRE FIGHTING MEASURES

- Suitable extinguishing agents:** Do not recommended water jet.
- Hazards during fire-fighting:** Carbon monoxide, carbon dioxide, phosphorus (PO_x), sulfur oxides (SO_x), 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.
- Environmental precautions:** -
- Cleanup:** Minimize water use for cleaning.

SECTION 7 : HANDLING AND STORAGE

- Handling:** Use with adequate ventilation. Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety procedures. Use only non-sparking tools.
- Storage conditions:** Do not overheat in storage. Under no circumstances should water be allowed to contact hot product because of the danger of boilover. 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:

Component Name	Reference	TWA		STEL	
		ppm	mg/m3	ppm	mg/m3
Base Oil Group I	Australia exposure standard	-	5	-	-
	US-OSHA (PELs)	-	5	-	-

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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:	Ensure that eyewash stations and safety showers are proximal to the work-station location.
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

Attention: the data below are typical values and do not constitute a specification.

Appearance:	Liquid
Odor:	Not Applicable
Color:	
Boiling Point:	Not Applicable
Initial Boiling Point	0
Flash Point:	250, 252°C
Melting Point:	Not Applicable
Vapour Pressure:	Not Applicable
Auto ignition temperature:	Not Applicable
Solubility:	Not Applicable
Viscosity:	18.5, 30.0 cSt 100°C
Upper/Lower flammability or explosive limit	Not Applicable
pH:	Not Applicable
Relative density:	0.888, 0.894 g/cm ³ 30°C
Vapour density:	
Partition characteristics:	
Specific Gravity:	Not Applicable
Partition coefficient: n-octanol/water:	Not Applicable
Decomposition temperature:	Not Applicable
Explosive properties:	Not Applicable

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SECTION 10 : STABILITY AND REACTIVITY

Stability: Stable under normal ambient temperature.

Chemical Stability: Extremes of temperature or direct sunlight.

Material to Avoid:

Dangerous decomposition: Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide.

SECTION 11 : TOXICOLOGICAL INFORMATION

Acute Toxicity:

Chemical name	Route	Species	Acute Toxic Value
Base Oil Group I	Dermal	Rabbit	LD50 > 5,000 mg/kg
	Inhalation	Rat	LD50 > 4,026 mg/l/4h
	Oral	Rat	LD50 > 5,000 mg/kg

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.

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

SECTION 12 : ECOLOGICAL INFORMATION

ECOTOXICITY:

NOEL	≥ 100	mg/l/96h.	Pimephales promelas	(Fish, fresh water)
NOEL	≥ 10,000	µg/l/48h	Daphnia magna	(Crustacea)

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

Bio-accumulative potential: Product deems potentially to meet bio-accumulation criteria.

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.

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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. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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.

SECTION 14 : TRANSPORTATION INFORMATION

Regulatory information	UN number	Classes	Packing Group	Label	Additional information
DOT	-	-	-	-	-
ADR/RID	-	-	-	-	-
IMDG CODE	-	-	-	-	-
ICAO/IATA	-	-	-	-	-

SECTION 15 : REGULATORY INFORMATION

US Toxic Substances Control Act

All components of this product are on the TSCA Inventory.

European Inventory of Existing Commercial Chemical Substances (EINECS)

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

Canada - WHMIS

This product does not meet WHMIS classification criteria.

SECTION 16 : OTHER INFORMATION

DOT	: Department of Transportation
RID	: Regulations concerning the international carriage of dangerous goods by rail.
ADR	: European agreement concerning the international carriage of dangerous goods by road.
IMDG-CODE	: International maritime dangerous goods code
ICAO	: International Civil Aviation Organization
IATA	: International air transport association
CLP	: Classification and Labeling of Packaging
GHS	: Globally Harmonized System of Classification and Labeling of Chemicals

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LD50 : Lethal Dose, 50%
LC50 : Lethal Concentration, 50%
NOEL : No-Observed-Effect Level
HMIS : Hazardous Materials Identification System
NFPA : National Fire Protection Association
WHMIS : Workplace Hazardous Materials Information System

NFPA - USA

Health : 1

HMIS

Health : 1

SDS Information

GHS Revision :

Revision Date :

Print Date :

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