Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PT Maxnitron Dura 30, 40, 50

Product Use:	Engine 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

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
Refined Mineral Oil	Commercial	-	≥ 96
Additives	Commercial	-	≤ 4

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.

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. DO NOT induce vomiting.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Agents: Dry chemical, foam, water fog or carbon dioxide.
Do not use water jets for large fires.

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.

Environment Precautions: Prevent, by any means available, spillage from entering drains or water course.

Emergency Procedure:

- Spill or Leak:
  - Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area)
  - Do NOT direct water at spill or source of leak.
  - Clean up all spills immediately.
  - Do not touch or walk through spilled material.
  - Stop leak if you can do it without risk.
  - If possible, turn leaking containers so that gas escapes rather than liquid.

Clean-Up: Absorb with liquid-blinding material (e.g. sand, diatomaceous earth, acid-or universal binding agents). Collect recoverable product into labelled containers for recycling. Wash area and prevent runoff into drains.

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

Storage Conditions: 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		STE	
		ppm	mg/m3	ppm	mg/m3
Refined Mineral Oil	Australia Exposure Standard	-	5	-	-
	US-OSHA (PELs)	-	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: 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

Physical Description:	Liquid
Color:	Clear
Odor:	Not Applicable
pH:	Not Applicable
Vapor Pressure:	Not Applicable
Vapor Density:	Not Available
Initial Boiling Point:	Not Applicable
Melting Point:	Not Applicable
Flash Point:	250, 258, 268 °C (follow up product number)
Auto-Ignition:	Not Applicable
Solubility:	Not Applicable
Specific Gravity:	Not Applicable
Relative Density:	0.880, 0.885, 0.889 g/cm3 @ 30°C (follow up product number)
Viscosity:	11.0, 14.0, 19.0 cSt @ 100°C (follow up product number)
Partition Coefficient; n-Octanol / Water:	Not Applicable
Decomposition Temperature:	Not Applicable
Upper/Lower Flammability or Explosive Limit:	Not Applicable
Explosive Properties:	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable under normal ambient temperature.
Condition Avoid:	Extremes of temperature or direct sunlight.
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	Dermal	Rabbit	LD_{50} > 5,000 mg/kg
	Inhalation	Rat	LC_{50} > 4,026 mg/l/4h
	Oral	Rat	LD_{50} > 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.

Other Information: N/A

SECTION 12: ECOLOGICAL INFORMATION

Eco-Toxicity

NOEL	≥ 100	mg/l/96h.	*Pimephales promelas*	(Fish, Fresh Water)
NOEL	≥ 10,000	mg/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-Accumulate 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.

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: TRANSPORT 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):

US Toxic Substances Control Act:

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

ADR:	European agreement concerning the international carriage of dangerous goods by road.
RID:	Regulations concerning the International carriage of Dangerous goods by rail.
DOT:	Department of Transportation
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
OSHA:	Occupational Safety and Health Administration
TWA:	Time Weighted Average
LD_{50}:	Lethal Dose, 50%
LC_{50}:	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: 0 Flammability: 1 Reactivity: 0

HMIS

Health: 0 Flammability: 1 Reactivity: 0

SDS Information

GHS Revision:

Revision Date:

Print Date:

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.