

Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PT Maxnitron Ultra Synthetic Diesel SAE 5W-30

Product Use: Designed for superior performance of modern heavy-duty diesel engines.

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

2.1 Classification of the mixture according to Globally Harmonized System (GHS) standards

Not classified

GHS label elements

Signal word: No signal word

Hazard statements: No known significant effects or critical hazards

Precautionary statements:

P261 – Avoid breathing dust/fumes/gas/mist/vapours/spray.

P264 – Wash ... thoroughly after handling.

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.

P302+P352 – IF ON SKIN: Wash with plenty of water.

P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P312 – Call a POISON CENTER or doctor/physician if you feel unwell.

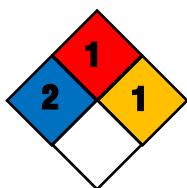
P321 – Specific treatment (see section 4 on this SDS).

P332+P313 – If skin irritation occurs: Get medical advice/attention.

P362+P364 – Take off contaminated clothing and wash it before reuse.

P501 – Dispose of contents/container in accordance with local/regional/national/international regulations.

2.2 NFPA Ratings (Scale 0-4):



Health = 2
Flammability = 1
Reactivity = 1

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

This material is defined as a mixture.

Chemical Name	CAS Number	Percent Weight
Distillates (petroleum), hydro-treated heavy paraffinic	64742-54-7	> 80 %Weight
Additive Package	-	< 20 %Weight

SECTION 4: FIRST AID MEASURES

Inhalation: Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Skin Contact: Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

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Eye Contact:	Flush thoroughly with water for 15 minute. Flush thoroughly with water. If irritation occurs, get medical assistance.
Ingestion:	If swallow, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Fire Fighting Instructions:	- Water may be ineffective on flames, but should be used to keep fire-exposed containers cool. Large fire, such as tank fires, should be fought with caution. If possible, pump the content from the tank and keep adjoining structures cool and protect personnel. Avoid spreading burning liquid with water used for cooling purposes. Do not flush down public sewers. The use of self-contained breathing apparatus and protective clothing is recommended for fire fighters. Avoid inhalation of vapors. - Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.
Special Fire Precaution:	- Vapors can build explosive mixtures with air. - Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons and soot. These may be highly dangerous if inhaled.
Protective Measures for Firefighters:	- Insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Notification Procedures:

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Protective Measures:

- Avoid contact with spilled material. See Section 5 for fire-fighting measures. See Section 2 the hazards identification. See Section 4 for first-aid measures. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.
- For emergency responders: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respirator with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are

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resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

Spill Management:

- Land Spill: Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent.
- Water Spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants. Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted.
- Note: Local regulations may prescribe or limit action to be taken.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

Environmental Precautions:

- Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7: HANDLING AND STORAGE**Handling:**

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include API Recommended Practice 2003 (Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents) or National Fire Protection Association 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

Static Accumulator:

This material is a static accumulator.

Storage:

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The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabeled containers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider. No special requirements under ordinary conditions of use and with adequate ventilation.

Personal Protection:

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

- **General Advice:** The use and choice of Personal Protection equipment is related to the hazard of the product, the workplace, and the way the product is handled. In general, we recommend as a minimum safety precaution the safety glasses with side-shields and work clothes protection arms, legs and body be used. In addition, any person visiting an area where this product is handles or processed should at least wear safety glasses with side-shields.
- **Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: use a half face filter mask to protect from overexposure by inhalation. No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filters capacity/rating may be exceeded.

- **Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: Nitrile, Viton
- **Eye Protection:** If contact is likely, safety glasses with side shields are recommended.
- **Skin and Body Protection:** See general advice.
- **Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely

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wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Environmental Controls:

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications.

Physical State:	Liquid
Colour:	Dark Brown
Odour:	Characteristic
Kinematics Viscosity @ 100 °C:	13.90-14.90
Flash Point °C:	Min. 215
Solubility in Water:	Insoluble

SECTION 10: STABILITY AND REACTIVITY

Stability:	Material is stable under normal conditions.
Condition to Avoid:	Excessive heat. High energy sources of ignition.
Materials to Avoid:	Strong oxidizing agents, chlorate, nitrates, peroxides.
Hazardous Decomposition Products:	CO, CO ₂ , water vapor, oxide of sulfur / nitrogen / phosphorus / boron.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION**Information on Toxicological Effects:****Acute Toxicity**

Oral:	> 4,000 mg/kg (Calculated)
Dermal:	> 4,000 mg/kg (Calculated)
Inhalation:	> 2.18 mg/kg (Calculated)
Skin Corrosion/Irritation:	Causes skin irritation

SECTION 12: ECOLOGICAL INFORMATION

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The information given is based on data available for the material, the components of the material, and similar materials.

Ecotoxicity:	No Data Available
Persistence and Degradability:	No Data Available
Bioaccumulative Potential:	May cause long lasting harmful effects to aquatic life
Mobility:	No Data Available
Other Adverse Effects:	No Data Available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Disposal Recommendations:

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact.

Empty Container Warning:

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations.

DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14: TRANSPORT INFORMATION

US DOT Information:

Proper Shipping Name: Not regulated as dangerous goods unless this product is shipped at a temperature above the flash point

International Maritime Dangerous Goods (IMDG) Code:

Proper Shipping Name: Not regulated as dangerous goods unless this product is shipped at a temperature above the flash point

International Air Transport Association (IATA) and ICAO Information:

Proper shipping name: Not regulated as dangerous goods unless this product is shipped at a temperature above the flash point

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SECTION 15: REGULATORY INFORMATION

This material is considered hazardous according to the classification criteria of the Hazard Classification and Communication System for Hazardous Materials BE 2555.

SECTION 16: OTHER INFORMATION

Issue Date: 30 November 2022

Revision Date: 30 November 2022

Reference: Globally Harmonized System of Classification and Labelling of Chemical (GHS), UNITED NATIONS, New York and Geneva, 2011

The information and recommendations contained herein are accurate and reliable as of the date issued. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication, or retransmission of this document, in whole or in part, is not permitted.

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