

Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PT Maxnitron Max ECO SAE 0W-20

Product Use: For the gasoline engine of a passenger car

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.

Acute toxicity (Oral)	Category 5
Skin Corrosion/Irritation	Category 2
Chronic aquatic toxicity	Category 4

2.2. GHS label elements

Hazard Pictogram



Signal word

Warning

Hazard statements

H303: May be harmful if swallowed
H315: Causes skin irritation
H332: Harmful if inhaled
H413: May cause long lasting harmful effects to aquatic life.

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.

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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.

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.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

This material is defined as a mixture.

Component	CAS No.	Content (%wt)
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	< 88
Additive Package	-	> 14

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 contacts 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.

Eye Contact

Flush thoroughly with water for 15 minutes. Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion

If swallow, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

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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.

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 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.

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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

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 filter 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

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Specific Hygiene Measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely 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
Color	Dark Brown
Odor	Characteristic
Kinematics Viscosity @100°C, mm²/s	13.9 – 14.9
Flash Point, °C	199 Min.
Solubility in Water	Insoluble

SECTION 10: STABILITY AND REACTIVITY

Stability	Material is stable under normal conditions.
Conditions 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

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

Ecotoxicity No data available

Persistence and Degradability No data available

Bioaccumulation Potential May cause long lasting harmful effects to aquatic life.

Mobility No data available

Other adverse effects None known

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.

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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.

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**

July 23th, 2025

Revision date

July 23th, 2025

Notice:

This Safety Data Sheet (SDS) is supplied solely for informational purposes only. Miracle Chemicals makes no guarantees or warranties, either expressed or implied, with respect to the use and accuracy of this information. Since the condition of use and local applicable laws may differ from one location to another, it is the ultimate responsibility of the end-user to ensure whether this product is suitable and in compliance with local practice.

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