

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name:	GAUGE Diesel & Petrol Engine Oil (Mineral & Synthetic Blends)
Product Code:	GE-ENG-DP-SERIES
Recommended Use:	Internal combustion engine lubricant (Automotive diesel and gasoline engines)
Manufacturer:	GAUGE ENERGY CO., LTD. Office: Pickering, Ontario, Canada & Dar es Salaam, Tanzania
Website & Contact:	www.gaugeenergy.com

2. HAZARD IDENTIFICATION

Classification (GHS): Not classified as hazardous according to GHS criteria.

Signal Word: None. **Pictograms:** None required.

Hazard Statements: Prolonged or repeated skin contact may cause slight irritation, defatting, or dermatitis. Used engine oils may contain harmful combustion by-products.

Precautionary Statements: P262 Do not get in eyes, on skin, or on clothing. P280 Wear protective gloves/eye protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name / Component	CAS Number	Weight %	GHS Classification
Refined Mineral Base Oil (Paraffinic Petroleum)	64742-54-7 / 64742-65-0	70 – 90%	Not Classified
Zinc Alkyldithiophosphate (ZDDP)	68649-42-3	1 – 2%	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2
Performance Additive Package (Detergents, Dispersants)	Mixture	5 – 15%	Not Classified (Non-hazardous mixture)

4. FIRST-AID MEASURES

Inhalation: Remove victim to fresh air. If breathing is labored, give oxygen. Get medical attention if irritation persists.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present. Seek medical advice if irritation occurs.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a physician.

5. FIRE-FIGHTING MEASURES

Extinguishing Media:	Carbon dioxide (CO ₂), dry chemical powder, foam, water fog. Do not use direct water jet.
Specific Hazards:	Combustible liquid. Burning may produce dense black smoke, carbon monoxide (CO), sulfur oxides, and phosphorus oxides.

Protective Equipment:	Wear self-contained breathing apparatus (SCBA) and full protective gear for firefighting.
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment (gloves, safety glasses). Floors may be slippery.

Environmental Precautions: Prevent entry into sewers, water courses, or soil. Contain spill with bunds or inert absorbent material (sand, earth).

Clean-up Methods: Soak up with absorbent material and dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Ensure adequate ventilation.

Storage: Store in tightly closed original containers in a cool, dry, well-ventilated area away from heat and strong oxidizers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	OSHA PEL	ACGIH TLV	Recommended Controls
Mineral Oil Mist	\$5\sim\text{mg}/\text{m}^3\$ (8h TWA)	\$5\sim\text{mg}/\text{m}^3\$ (Inhalable)	Use local exhaust ventilation if misting occurs. Wear nitrile/neoprene gloves and safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance / State:	Clear to amber liquid	Flash Point (COC):	> 210°C to 240°C
Odour:	Mild petroleum	Density @ 15°C:	0.860 – 0.900 g/ml
Viscosity @ 100°C:	9.3 to 20.5 cSt	Pour Point:	-15°C to -35°C
Solubility in Water:	Insoluble	pH:	Not applicable

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.

Chemical Stability: Stable under recommended storage and handling conditions.

Incompatible Materials: Strong oxidizing agents, strong acids, halogens.

Hazardous Decomposition: Carbon oxides and thermal decomposition products upon burning.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral LD50 (Rat) > 5000 mg/kg; Dermal LD50 (Rabbit) > 2000 mg/kg.

Skin / Eye Irritation: May cause mild transient irritation upon prolonged contact.

Carcinogenicity: Base oils used in this product are severely refined and not classified as carcinogens by IARC.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Expected to be harmful to aquatic life with long lasting effects. Do not discharge into drains or waterways.

Mobility & Degradability: Floats on water. Low mobility in soil. Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Waste Treatment: Dispose of used oil and containers in accordance with national and local environmental regulations. Do not dispose of waste into sewer systems.

14. TRANSPORT INFORMATION

UN Number:	Not regulated as a dangerous good for transport (DOT, IMDG, IATA).
Special Precautions:	Ensure secure upright stowage during transport to prevent leakage.

15. REGULATORY INFORMATION

Safety & Environmental Regulations: Compliant with local and international chemical inventory requirements. Designed and manufactured under GAUGE ENERGY quality standards (www.gaugeenergy.com).

16. OTHER INFORMATION

Disclaimer: This Safety Data Sheet is compiled in good faith based on data considered accurate as of the date of publication. No warranty, expressed or implied, is made regarding the accuracy or completeness of this data. Users are responsible for evaluating safe usage conditions.