SAFETY DATA SHEET (SDS)
Product Name: Gear OIL XHD 80W-90 GL-5
Product Type: Automotive Gear Lubricant (Transmission)
Supplier: OLA ENERGY

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1. PRODUCT AND COMPANY IDENTIFICATION

- **Product Identifier:** Gear OIL XHD 80W-90 GL-5
- **Product Type:** Lubricant
- **Relevant Identified Uses:** Designed for lubrication in automotive gears to reduce friction, wear, and tear
- **Supplier Details:**
  - Company: OLA ENERGY
  - Address: [Insert Company Address Here]
  - Telephone: [Insert Contact Number Here]
- **Emergency Phone Number:** [Insert Emergency Number Here]

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2. HAZARD IDENTIFICATION

- **GHS Classification:**
  - Skin Irritation: Category 2
  - Eye Irritation: Category 2B
  - Specific Target Organ Toxicity (Single Exposure): Category 3 (respiratory tract irritation)
- **GHS Label Elements:**
  - **Signal Word:** Warning
  - **Hazard Statements:**
    - H315: Causes skin irritation
    - H320: Causes eye irritation
    - H335: May cause respiratory irritation
  - **Precautionary Statements:**
    - P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
    - P264: Wash thoroughly after handling.
    - P280: Wear protective gloves/protective clothing/eye protection/face protection.
    - P302+P352: IF ON SKIN: Wash with plenty of water.
    - P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Gear OIL XHD 80W-90 GL-5 is primarily composed of highly refined petroleum-based oils and additives. The key components are detailed below:

Component	Approximate % by Weight	CAS Number
Petroleum-based base oils	85-95%	Mixture (varies)
Calcium Sulfonate	1-5%	Proprietary
Alkylated Phenol	1-5%	Proprietary
Zinc Dialkyl Dithiophosphate (ZDDP)	1-5%	68649-42-3

Note: The petroleum base oils in this product are highly refined to meet stringent quality and performance requirements in engine lubrication applications.

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4. FIRST-AID MEASURES

- **Eye Contact:** Flush thoroughly with water. If irritation occurs, call a physician.
- **Skin Contact:** Wash contact areas with soap and water. Remove and clean oil-soaked clothing daily.
- **Inhalation:** Move to fresh air. If respiratory symptoms occur, seek immediate medical attention.
- **Ingestion:** Do not induce vomiting. Seek medical attention if discomfort occurs.

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5. FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Carbon dioxide, foam, dry chemical, and water fog.
- **Special Firefighting Procedures:** Use water to keep exposed containers cool. Prevent runoff from entering waterways.
- **Protective Equipment:** Firefighters should use self-contained breathing apparatus for enclosed fires.

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6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Wear protective equipment to avoid contact with skin and eyes.
- **Environmental Precautions:** Prevent material from entering sewers or water sources.
- **Containment and Clean-up:** Contain spilled material with sand or absorbent material and remove mechanically.

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7. HANDLING AND STORAGE

- **Handling:** No special precautions needed beyond standard hygiene practices.
- **Storage:** Keep containers closed. Store away from heat, open flames, and strong oxidizers.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Occupational Exposure Limits:**
  - Oil Mist (mineral):
    - ACGIH TLV: 5 mg/m³ (TWA), 10 mg/m³ (STEL)
    - OSHA PEL: 5 mg/m³ (TWA)
- **Engineering Controls:** Use adequate ventilation to control airborne levels.
- **Personal Protective Equipment:**
  - **Hand Protection:** Wear nitrile or oil-resistant gloves.
  - **Eye Protection:** Safety goggles or face shield
  - **Respiratory Protection:** Use a respirator with an appropriate filter if ventilation is insufficient.
  - **Skin Protection:** Long sleeves and oil-resistant clothing are recommended for frequent contact.

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9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Liquid
- **Color:** Amber
- **Odor:** Mild
- **Boiling Point:** > 316°C (600°F)
- **Flash Point:** > 177°C (350°F) (ASTM D-92)
- **Vapor Density:** > 2.0
- **Relative Density (15°C):** 0.86-0.89
- **Viscosity (100°C, cSt):** 26

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10. STABILITY AND REACTIVITY

- **Chemical Stability:** Stable under normal conditions.
- **Conditions to Avoid:** Avoid high temperatures and strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon monoxide, sulfur oxides, and other toxic fumes under combustion.

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11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:**
  - **Oral (Rat):** Practically non-toxic (LD50 > 2000 mg/kg)
  - **Dermal (Rabbit):** Practically non-toxic (LD50 > 2000 mg/kg)
  - **Inhalation (Rat):** Practically non-toxic (LC50 > 5 mg/L)
- **Skin Irritation:** May cause irritation with prolonged exposure
- **Eye Irritation:** May cause mild irritation
- **Carcinogenicity:** Not classified as a carcinogen.
- **Reproductive Toxicity:** Not expected to cause reproductive harm.

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12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** Expected to be harmful to aquatic life with long-lasting effects.
- **Aquatic Toxicity (Calcium Sulfonate):** LL50 (fish) >1000 mg/L
- **Persistence and Degradability:** Inherently biodegradable but may persist in the environment.
- **Bioaccumulative Potential:** Low bioaccumulation potential due to low water solubility.
- **Mobility in Soil:** Expected to adsorb strongly to soil and sediment.

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13. DISPOSAL CONSIDERATIONS

- **Waste Disposal:** Dispose of in accordance with local and national regulations. Product may be burned in an enclosed, controlled burner for fuel value.

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14. TRANSPORT INFORMATION

- **DOT:** Not regulated
- **RID/ADR, IMO, IATA:** Not regulated

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15. REGULATORY INFORMATION

- **OSHA HAZARD COMMUNICATION STANDARD:** Not classified as hazardous under OSHA 29 CFR 1910.1200.
- **EU Classification:** Not considered dangerous under EU regulations.
- **TSCA and EINECS/ELINCS:** All components are listed.

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16. OTHER INFORMATION

- **Date of Preparation / Last Revision:** November 2024
- **Legal Disclaimer:**
  This information reflects our current knowledge and describes the product in terms of health, safety, and environmental requirements only. It should not be seen as guaranteeing specific properties or suitability for a particular use.