# MATERIAL SAFETY DATA SHEET

1. **Product Use:** LOW ASH GAS ENGINE OIL

2. **Synonyms:** EIFFEL ENGAS ESP SERIES

3. **Company Identification**

BURJ EIFFEL INT LUBRICANTS IND L.L.C
NEW INDUSTRIAL AREA
UAQ
UAE

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## 4. HAZARDS IDENTIFICATION

This material is not hazardous according to regulatory guidelines (see (M)SDS Section 15).
**Contains:** CALCIUM SULPHONATE, SULFONIC ACIDS, PETROLEUM, CALCIUM SALTS May produce an allergicreaction.
Other hazard information:

**Physical / Chemical Hazards:**

No significant hazards.
Health Hazards:
High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, orrespiratory irritation.
Environmental Hazards:
No significant hazards.

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may varyfrom person to person.

## 5. FIRST AID INFORMATION

**Eye Contact:** Immediately flush eyes with large amounts of water and continue flushing until irritation subsides. If material is hot, treat for thermal burns and seek immediate medical attention.
**Skin Contact:** No treatment is necessary under ordinary circumstances. Remove contaminated clothing.Wash contaminated area thoroughly with soap and water. If material is hot, submerge injured area in cold water. If victim is severely burned, remove to a hospital immediately.
**Inhalation:** This material has a low vapor pressure and is not expected to present an inhalation exposure at ambient conditions. If vapor or mist is generated when the material is heated, and the victim experiences signs of respiratory tract irritation, remove to fresh air.

**Ingestion:** No treatment is necessary under ordinary circumstances. Do not induce vomiting. If victim exhibits signs of lung aspiration such as coughing or choking, seek immediate medical assistance.
**Notes to Physician:** No information available
**Other:** No information available

## 6. FIRE AND EXPLOSION INFORMATION

**Flammable Properties**
**Flash Point: 245º C (Typical)Test Method:** ASTM 92
**Flammable Limits in Air**
**Upper Percent:** No data available
**Lower Percent:** No data available
**Autoignition Temperature:** No data available **Test Method:** No information available
**NFPA Classification:** Class III-B combustible liquid
**Extinguishing Media:** Use dry chemical, foam, or carbon dioxide.
**Fire Fighting Measures**
**Special Fire Fighting Procedures and Equipment:** Water may be ineffective but can be used to cool containers exposed to heat or flame to prevent vapor pressure buildup and possible container rupture. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.
**Unusual Fire and Explosion Conditions:** Dense smoke may be generated while burning. Carbon monoxide, carbon dioxide, and other oxides may be generated as products of combustion.
**Hazardous Combustion By-Products:** None
**Other:** No information available

## 7. ACCIDENTAL RELEASE MEASURES

**Personnel Safeguards:** Consult Health Effect Information in Section 3, Personal Protection Information in Section 8, Fire and Explosion Information in Section 5, and Stability and Reactivity Information in Section 10.
**Regulatory Notifications:** Notify appropriate authorities of spill.
**Containment and Clean up:** Contain spill immediately. Do not allow spill to enter sewers or watercourses. Absorb with appropriate inert material such as sand, clay, etc. Large spills may be picked up using vacuum pumps, shovels, buckets, or other means and placed in drums or other suitable containers.
**Other:** No information available

## 8. HANDLING AND STORAGE INFORMATION

**Handling:** Fire extinguishers should be kept readily available. See NFPA 30 and OSHA 1910.106--Flammable and Combustible Liquids.
**Storage:** Do not transfer to unmarked containers. Store in closed containers away from heat, sparks, open flame, or oxidizing materials.
**Empty Container Warnings**

**Drums:** Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed.
**Plastic:** Empty container may retain product residues.
**Other:** No information available

## 9. EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

**Exposure Limits and Guidelines**
This product does not contain any components with OSHA or ACGIH exposure limits.
**Personal Protective Equipment**
**Eye/Face Protection:** Eye protection is not required under conditions of normal use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.
**Skin Protection:** No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing (boots, gloves,aprons, etc.).
**Respiratory Protection:** Respiratory protection is not required under conditions of normal use. If vapor or mist is generated when the material is heated or handled, use an organic vapor respirator with dust and mist filter. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.
**Personal Hygiene:** Consumption of food and beverage should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, or smoking.
**Engineering Controls / Work Practices**
**Ventilation:** If vapor or mist is generated when the material is heated or handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure or flammable limits.
**Other:** The OSHA permissible exposure limit (PEL) and ACGIH threshold limit value (TLV) for oil mist is 5 mg/m3. The ACGIH short-term exposure limit (STEL) for oil mist is 10 mg/m3.

## 10. CHEMICAL COMPOSITION

This material is defined as a mixture.Hazardous Substance(s) or Complex Substance(s) required for disclosure

| Name | CAS# | Concentration* | GHS Hazard Codes |
|---|---|---|---|
| 2,5-FURANDIONE, DIHYDRO-, POLYBUTENYL DERIVS. REACTION PRODUCTS WITH TETRAETHYLENEPENTAMINE | 68583-75-5 | 1 - < 5% | H413 |
| 2-PENTANOL, 4-METHYL-, HYDROGEN PHOSPHORODITHIOATE, ZINC SALT | 2215-35-2 | 0.1 - < 1% | H303, H315, H318, H401, H411 |
| BENZENE PROPANOIC ACID, 3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXY-, C7-9 BRANCHED ALKYL ESTERS | 125643-61-0 | 1 - < 5% | H413 |
| BENZENE SULFONIC ACIDS, C10-16 ALKYL DERIVS., CA SALTS | 68584-23-6 | 0.1 - < 1% | H317 |
| BENZENESULFONIC ACID, MONO-C16-24-ALKYL DERIVS. CALCIUM SALTS | 70024-69-0 | 0.1 - < 1% | H317 |
| SULFONIC ACIDS, PETROLEUM, CALCIUM SALTS | 61789-86-4 | 0.1 - < 1% | H317 |

All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Otheringredients determined not to be hazardous up to 100%.

## 11. STABILITY AND REACTIVITY INFORMATION

**STABILITY:** Material is stable under normal conditions.
**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

**INCOMPATIBLE MATERIALS:** Strong oxidisers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

## 12. PHYSISCAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations onlyand may not fully represent product specifications. Contact the Supplier for additional information.

**GENERAL INFORMATION**

**Physical State:** Liquid

**Colour:** Amber

**Odour:** Characteristic

Odour Threshold: N/D

**IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION**

Relative Density (at 15.6 °C): 0.89

**Flammability (Solid, Gas):** N/A

**Flash Point [Method]:** >245°C (473°F) [ASTM D-92]

**Flammable Limits (Approximate volume % in air):** LEL: 0.9 UEL: 7.0

Autoignition Temperature: N/D

**Boiling Point / Range:** > 288°C (550°F)**Decomposition Temperature:** N/D **Vapour Density (Air = 1):** > 2 at 101 kPa

**Vapour Pressure:** < 0.013 kPa (0.1 mm Hg) at 20 ºC

Evaporation Rate (n-butyl acetate = 1): N/D

**pH:** N/A

Log Pow (n-Octanol/Water Partition Coefficient): > 3.5

**Solubility in Water:** Negligible

**Viscosity:** 130 cSt (130 mm2/sec) at 40 ºC | 13.5 cSt (13.5 mm2/sec) at 100°C
**Oxidizing Properties:** See Hazards Identification Section.

OTHER INFORMATION

**Freezing Point:** N/D

Melting Point: N/A

**Pour Point:** -12°C (10°F)

DMSO Extract (mineral oil only), IP-346: < 3 %wt

## 13. TOXICOLOGICAL INFORMATION

**Primary Eye Irritation:** No information available
**Primary Skin Irritation:** No information available
**Acute Dermal Toxicity:** No information available
**Subacute Dermal Toxicity:** No information available
**Dermal Sensitization:** No information available
**Inhalation Toxicity:** No information available
**Inhalation Sensitization:** No information available
**Oral Toxicity:** No information available
**Mutagenicity:** No information available
**Carcinogenicity:** The International Agency for Research on Cancer (IARC) has concluded that there is inadequate data to evaluate the carcinogenicity to experimental animals of this class of product.IARC has concluded there is sufficient evidence that used gasoline-engine motor oils produce skin tumors in experimental animals. Also, IARC has determined this class of products belongs to Group 3-"not classifiable as to its carcinogenicity to humans".
**Reproductive and Developmental Toxicity:** No information available
**Teratogenicity:** No information available
**Immunotoxicity:** No information available
**Neurotoxicity:** No information available
**Other:** No information available

## 14. ECOLOGICAL INFORMATION

**Aquatic Toxicity:** No information available
**Terrestrial Toxicity:** No information available
**Chemical Fate and Transport:** No information available
**Other:** No information available

## 15. DISPOSAL INFORMATION

**Regulatory Information:** All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations.Caution! If regulated solvents are used to clean up spilled material, the resulting

waste mixture may be regulated. Department of Transportation (DOT) regulations may apply for transporting this material when spilled.
**Waste Disposal Methods:** Waste material may be landfilled or incinerated at an approved facility.Materials should be recycled if possible.
**Other:** No information available

## 15. TRANSPORTATION INFORMATION

**U.S. Department of Transportation (DOT)**
**Highway / Rail (Bulk):** Not Regulated
**Highway / Rail (Non-Bulk):** Not Regulated
**For US shipments, US DOT law requires the shipper to determine the proper shipping description of the material that is being shipped. The shipping information and description contained in this section may not be suitable for all shipments of this material, but may help the shipper determine the proper shipping description for a particular shipment.**
**International Information**
**Vessel: IMDG Regulated: -- IMDG Not Regulated: X**
**Air: ICAO Regulated: -- ICAO Not Regulated: X**
**Other:** No information available

## 16. OTHER INFORMATION

**Health and Environmental Label Language**
WARNING: Continuous contact with used gasoline engine oils has caused skin cancer in animal
ATTENTION: Prolonged or repeated skin contact may cause oil acne or dermatitis. Repeated exposure to oil mist in excess of the OSHA limit (5mg/m3 can result in accumulation of oil droplets in pulmonary tissue.
Precautionary Measures: Avoid prolonged or repeated contact with eyes, skin and clothing. Avoid generation and inhalation of oil mists.
Instructions in Case of Fire or Spill: In case of fire, use water fog, foam, dry chemical or carbon dioxide. Water spray may be ineffective, but can be used to cool containers. Do not use a direct stream of water. Material will float and can be reignited on surface of water.
Spill or Leak: Dike and contain spill. Do not use water; soak up with absorbent material such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.
Contains: highly refined petroleum distillate, mixture; zinc compounds, mixture; polymer additives, mixture.
KEEP OUT OF REACH OF CHILDREN. (If intended for retail also)