MATERIAL SAFETY DATA SHEET

IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Identification of substance/preparation

PRODUCT : **LUBENZ SILVER HDEO 5000 SAE 40 CF-4**
CHEM FAMILY : PETROLEUM HYDROCARBON
HEALTH HAZARD : NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS
Application
For Used in Engine Oils
For Specific application advice, see appropriate Technical Data Sheet

1. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Composition
Highly Refined Mineral Based Oil

Composition	CAS No.	Percentage
Distillates, Petroleum, Solvent-refined Heavy Paraffinic	64741-88-4	95

2. Company Identification :

JLT 20th Floor| Fortune Executive Tower, Cluster T| Dubai, UAE | www.lubenzlubricants.com

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3. HAZARDS IDENTIFICATION Emergency and Hazards Overview

CAUTION: Contains Petroleum Lubricant. Repeated skin contact can cause skin disorders.
ATTENTION: Used motor oil is a possible skin cancer hazard based on animal data. Repeated exposure to oil mist in excess of the OSHA limit (5mg/m3) can result in accumulation of oil droplets in pulmonary tissue.

NFPA Ratings: Health 1 **Flammability** 1 **Reactivity** 0 **Primary Route of Exposure:**
Skin X **Inhalation -- Eye** X **Health Effect Information**
Eye Contact: This product is practically non-irritating to the eyes upon direct contact. Based on testing of similar products and/or components.
Skin Contact: Avoid skin contact. This product is minimally irritating to the skin upon direct contact. Based on testing of similar products and/or components. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping, and reddening. Prolonged or repeated contact may result in oil acne which is characterized by blackheads with possible secondary infection. Avoid prolonged and repeated skin contact with used motor oils. See Section 11 - Toxicological Information
Inhalation: This product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions. Caution should be taken to prevent aerosolization or misting of this product. On rare occasions, prolonged and repeated exposure to oil mist poses a risk of pulmonary disease such as chronic lung inflammation. Signs of respiratory effects vary with concentration and length of exposure and include nasal discharge, sore throat, coughing, bronchitis, pulmonary edema and difficulty breathing. Shortness of breath and cough are the most common symptoms.

Ingestion: Do not ingest. This product is relatively non-toxic by ingestion. This product has laxative properties and may result in abdominal cramps and diarrhea. Exposure to a large single dose, or repeated smaller doses, may lead to lung aspiration, which can lead to lipid pneumonia or chronic lung inflammation. These are low-grade, chronic localized tissue reactions.
Medical Conditions Aggravated by Exposure: Drying and chapping may make the skin more susceptible to other irritants, sensitizers and disease.
Other: No information available

4. 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

5. FIRE AND EXPLOSION INFORMATION Flammable Properties

Flash Point: 240 min, C Test Method: ASTM D92

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.

6. 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 Water courses. 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

PETROTM OIL

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7. 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 re- conditioner, or properly disposed.

Plastic: Empty container may retain product residues.

Other: No information available.

8. 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.). Launder soiled clothes. Properly dispose of contaminated leather articles including shoes, which cannot be decontaminated.

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 a 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

9. PHYSICAL AND CHEMICAL PROPERTIES

TESTS	METHOD	RESULTS
Appearance	VISUAL	C & B
Water	HOT PLATE	NIL
Color	ASTM 1500	3.0
Density @29.5°C,gm/CC	ASTM D 4052	0.8840
Viscosity @ 100 °C, cSt	ASTM D 445	15.5
Pour Point, ° C	ASTM D 97	-18
TBN,mgKOH/g	ASTM D 2896	8.2

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10. STABILITY AND REACTIVITY INFORMATION

Chemical Stability: Stable
Conditions to Avoid: High heat and open flames.
Incompatible Materials to Avoid: May react with strong oxidizing agents.
Other: No information available

11. 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

12. ECOLOGICAL INFORMATION

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

13. 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

14. TRANSPORTATION INFORMATION

Not Classified as hazardous for Transport (ADR, RID, UN, IMO, IATA/ICAO)

15. REGULATORY INFORMATION

Not Classified as hazardous for supply