

POWERCITY DIESEL ENGINE OIL PREMIUM MULTI-GRADE 15W-40 / CI-4 / SL

DESCRIPTION

Powercity Diesel Engine Oil Premium Multigrade is a premium multi-grade engine oil formulated to exceed the demanding performance of modern diesel engines for power generators. It is compatible with naturally aspirated engines, turbocharged engines, and engines with Exhaust Gas Recirculation (EGR).

Viscosity Grade: SAE 15W-40
API Service Class: CI-4 / SL
Performance Standard: ACEA E7



PROPERTIES

- Contains additive elements for engine protection against wear and corrosion.
- Detergent and dispersant additives for excellent control of acid and oxidation.
- Anti-foam additives to prevent engine component cavitation.

APPLICATIONS

- Automotive diesel engines.
- Naturally aspirated diesel engines.
- Turbocharged diesel engines.
- Engines with Exhaust Gas Recirculation (EGR).
- Gasoline engines requiring API SL service classification.

TYPICAL CHARACTERISTICS

PARAMETERS	METHOD	SPECIFICATIONS	RESULT*
Appearance	Visual	Clear	Clear
Color	ASTM D1500	Report	3.5
Density at 15°C, kg/L	ASTM D4052	Report	0.8775
Kinematic Viscosity at 40°C, cSt	ASTM D445	Report	109.6
Kinematic Viscosity at 100°C, cSt	ASTM D445	12.5-16.3	14.04
Viscosity Index	ASTM D2270	125 min	129
Total Base No., mg KOH/g	ASTM D2896 (Proc. B)	9 min	13.2
Crackle Test	In-house	Nil	Nil

* Powercity Diesel Engine Oil Premium Multi-grade 15W-40

For inquiries, contact:
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Material Safety Data Sheet

POWERCITY DIESEL ENGINE OIL PREMIUM MULTI-GRADE 15W-40 / CI-4 / SL

1. PRODUCT AND COMPANY IDENTIFICATION

Supplier/Manufacturer:
SEAOIL PHILIPPINES INC.
22nd Floor, The Taipan Place
Emerald Avenue, Ortigas Center Pasig City Corporate Office: 3951010
Web Site: www.seaoil.com.ph

In case of emergency, contact:
Seaoil Philippines, Inc. - Health, Environment and Safety Department
Tel # : (632) 310 5110 loc 688
Fax #: (632) 395 1011

Product name:	Powercity Diesel Engine Oil SAE 15W-40
API:	CI-4/SL
SAE Viscosity Grade:	15W-40
Recommended Use:	Diesel Engine Oil
Restrictions on Use:	All others

2. HAZARD IDENTIFICATION

CLASSIFICATION: Not classified as hazardous according to Philippine regulatory guidelines.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS #	% Weight
Highly refined mineral oil (C15 - C50)	Mixture	80-85%
Additives	Proprietary	15-20%

4. FIRST-AID MEASURES

Eye Contact: No specific first-aid measures are required. As a precaution, remove contact lenses, if worn, and flush your eyes with water.

Skin Contact: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from the skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean them before reuse.

Ingestion: Do not induce vomiting. No. emergency measures are needed but if adverse health effects follow refer to medical attention.

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Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water fog, foam, dry chemical powder, or carbon dioxide (CO₂).

Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, only enter any enclosed or confined fire space with proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will evolve when this material undergoes combustion.

NFPA RATINGS Health: 0 Flammability: 1 Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precaution: Eliminate all ignition sources in the vicinity of spilled material.

Procedure If Material is Released or

Spilled: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water, or groundwater. Clean up spills as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying in non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities as appropriate or required.

Exposure Limits: TLV = 5 mg/m³ as oil mist.

7. HANDLING AND STORAGE

General Handling: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Precautionary Measures: Keep out of the reach of children.

Container Warnings: The container is not designed to contain pressure. Do not use pressure to empty the container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, 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. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

GENERAL CONSIDERATIONS: Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS: Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.

Respiratory Protection: No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator when air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Amber
Physical State:	Liquid
Odor:	Petroleum odor
Odor Threshold:	No data available
pH:	Not Applicable
Solubility:	Soluble in hydrocarbons; insoluble in water
Freezing Point:	Not Applicable
Melting Point:	No data available
Density:	0.87kg/L @ 15°C (59°F) (Typical)
Viscosity:	14-15.5 cSt @ 100°C (212°F)
Evaporation Rate:	No data available
Octanol/Water Partition Coefficient:	No data available
Combustion Characteristics (Solids/Gases):	No data available
Decomposition Temperature:	No data available
Boiling Range:	No data available

FLAMMABLE PROPERTIES:

Flashpoint:	(Cleveland Open Cup) 215 °C - 230 °C (419 °F - 446 °F)
Autoignition:	No data available
Flammability (Explosive) Limits (% by volume in air):	Lower: Not Applicable Upper: Not Applicable

10. STABILITY AND REACTIVITY

Reactivity:	May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Chemical Stability:	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: Not applicable

Hazardous Decomposition Products: None Known (None expected)

Hazardous Polymerization: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS

Eye:	Not expected to cause prolonged or significant eye irritation.
Skin:	Not expected to be a primary skin irritant. Prolonged or repetitive contact may cause irritation.

Skin Irritation: The skin irritation hazard is based on the evaluation of data for product components.
Ingestion: Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain.

Carcinogenic: This material has not been identified as a carcinogen by NTP, IARC or OSHA.

Inhalation: Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms may include runny nose, sore throat, sneezing, coughing, chest tightness, and difficulty breathing. Symptoms of respiratory irritation may include coughing and difficulty breathing.

12. ECOLOGICAL INFORMATION

Ecotoxicity: This material is not expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

Mobility: No Data available

Degradability: Not readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.

Octanol/Water Partition Coefficient: No data available

13. DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: NOT REGULATED AS HAZARDOUS MATERIAL UNDER 49 CFR

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

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ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

15. REGULATORY INFORMATION

TSCA All components of this material are listed on the TSCA inventory or are exempt.

SARA 311/312

- | | |
|--------------------------------------|----|
| 1) Immediate (Acute) Health Effects | NO |
| 2) Delayed (Chronic) Health Effects | NO |
| 3) Fire Hazard | NO |
| 4) Sudden Release of Pressure Hazard | NO |
| 5) Reactivity Hazard | NO |

SARA 313

This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous

Substances list. CAL PROP 65 Not listed RCRA Not listed CERCLA Listed

16. OTHER INFORMATION

Additional Information: This document contains important information to ensure the safe storage, handling, and use of this product. The information in this document should be brought to the attention of the person in your organization responsible for advising on safety matters.

SDS Version Number: 4.0

SDS Effective Date: 05/20/2020

Uses and Restrictions: This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier. This product is not to be used as a solvent or cleaning agent; for lighting or brightening fires; as a skin cleanser. This product is designed only to suit automotive applications and no provision is made for the requirements of aviation applications.

SDS Distribution: The information in this document should be made available to all who may handle the product and should be brought to the attention of the person in your organization responsible for advising on safety matters.

Disclaimer: This information is based on current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be taken as guaranteeing any specific property of the product.