



# Powercity

## Premium Multi-grade Engine Oil



Specially formulated for Powercity Generators

- Tested and approved by Powercity.
- Meets/Exceeds Powercity warranty requirements.
- Formulated for all Powercity diesel generators.
- Approved for Powercity diesel generators with turbocharged diesel engines.
- Provides outstanding protection in all other diesel engines requiring API-CF-4 SAE 15W-40.

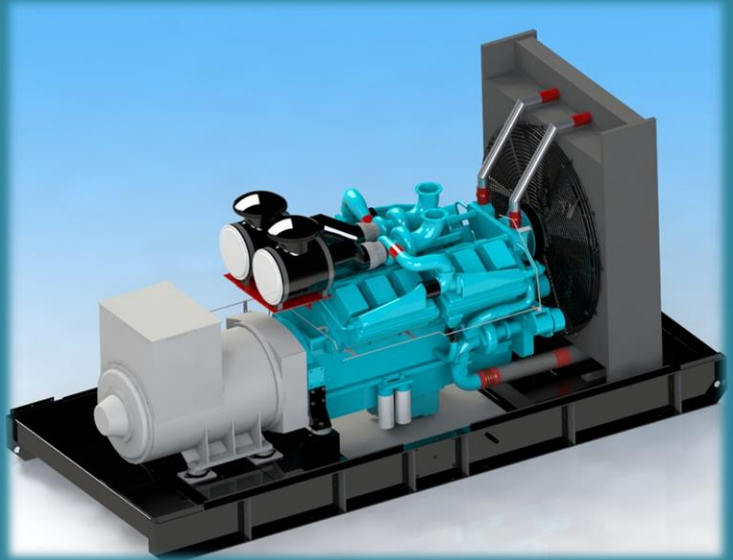
### Quantity Quick Check

Aside from a factory sealed cap, the container has semi-transparent side strip for checking the oil quantity. Always give you added confidence on the exact quantity of oil you purchase.



Engine oil lubricates moving parts. It also cleans, inhibits corrosion, improves sealing, and cools the engine by carrying heat away from moving parts.

Not all oils are created equal. Using the wrong engine oil in your Powercity generator can reduce fuel economy and have similar effect on mechanical power. Wrong engine oil can cause varnish or excessive sludge to accumulate and block oil passages. A blocked oil passage can cause overheating and friction, damaging engine components.



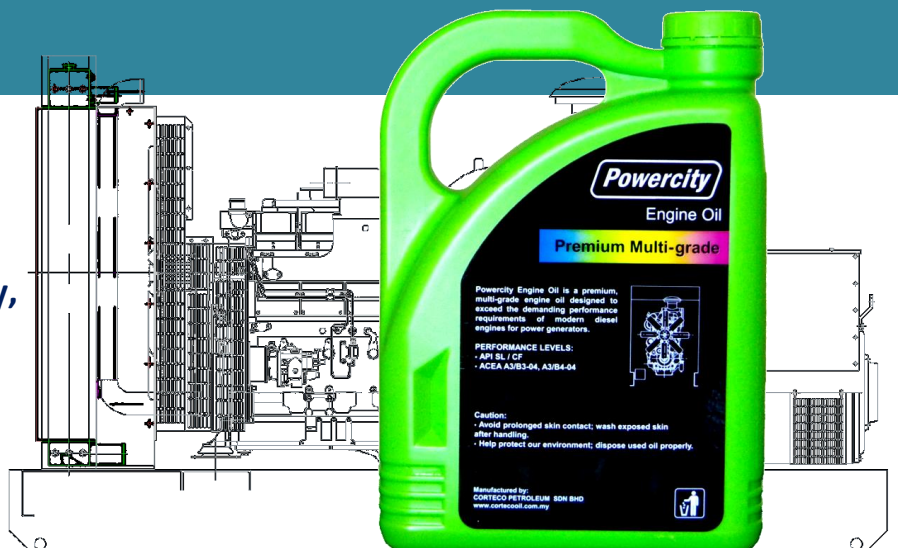
Powercity Multi-grade Engine Oil is formulated with rust and corrosion inhibitors, detergents, oxidation inhibitors, anti-foaming agents, friction reducing and anti-wear chemicals. Its viscosity rating is thin enough to flow at low temperatures and thick enough to perform satisfactorily at high temperatures making it most suitable for Powercity generators in standby or continuous use.

Always follow Powercity's recommended change oil interval.

Protect the environment. Dispose used oil and containers properly.

**Exclusively distributed by:**

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# Material Safety Data Sheet

## 1) IDENTIFICATION OF SUBSTANCE

Product Name: Powercity Mutligrade SAE 15W-40

Supplier: Corteco Petroleum Sdn Bhd

Chemical Description: Lubricating Oil



## 2) COMPOSITION /INFORMATION ON INGREDIENTS

### COMPONENTS

### RANGE IN %

Solvent dewaxed heavy paraffinic distillate	88-92
Additives	4-6
Solvent refined heavy paraffinic distillate	<8
Hydrotreated heavy paraffinic distillate	<8
Zinc alkyl dithiophosphate	<2

## 3) HAZARD IDENTIFICATION

**Sign and Symptoms:** Oil acne signs and symptoms may include formation of black pustules and spots on skins and exposed areas.

**Health Hazard:** Not expected to be a health hazard when used under normal conditions. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorder such as oil acne. Used oil may contain harmful impurities.

**Safety Hazard:** Not classified as flammable but may burn.

**Environmental Hazard:** Not classified as dangerous for the environment.

#### 4) FIRST AID MEASURES/EXPOSURE CONTROLS

**Inhalation:** No treatment needed under normal conditions of use. If symptoms persist, obtain medical advice.

**Eyes:** Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open.

**Skin:** Wash skin thoroughly with soap and water. If skin irritation persists, obtain medical advice.

**Ingestion:** In general no treatment needed unless large quantities are swallowed, however, get medical advice.

**Advice to doctor:** None Applicable.

#### 5) FIRE FIGHTING MEASURES

**Ignition temperature (Degrees c):** Not determined

**Flash point (Degrees c) :** >215(COC)

**Explosion hazards:** For fires involving this material, do not enter any enclosed or confined space without self-contained breathing apparatus to protect against the hazardous effects of combustion products or oxygen deficiency.

**Eyes:** No special eye protection is usually necessary. Safety glasses, chemical type goggles, or face shield appropriate where splashing or misting is expected during routine operations or spill clean-up.

**Skin:** Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin several times daily with soap and water and laundering or dry cleaning soiled work clothing at least weekly.

**Ventilation:** Use adequate ventilation to keep the airborne concentration of this material below the ACGIH TLV for mineral oil mists. Local exhaust ventilation and/ or enclosure of the process are preferred in these cases.

**Inhalation:** Respiratory protection is normally not required. However, if operating conditions create airborne concentrations that are excessive and may exceed the recommended exposure standard(s), the use of an approved respirator is recommended.

## 6) HANDLING AND STORAGE

**Handling:** Avoid prolonged or repeated contact with skin. Avoid inhaling vapor or mists. When handling products in drums, safety footwear should be worn and proper handling equipment should be used.

**Storage:** Keep container tightly closed and in a cool, well ventilated place. Use properly labeled and closeable containers .Storage temperature (Degrees c): 0-50

**Recommended materials:** For containers or container linings used mild steel or high density polyethylene.

**Unsuitable material:** PVC.

## 7) PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** Yellowish-brown liquid

**Boiling Point (Degrees c):** Not Determined

**Vapor pr. (mmhg@25degrees c):** Not Determined

**Density (kg/l at 15degrees c):** Not Determined

**Vapor density (air=1):** Not Determined

**Ph of undiluted product:** Not Applicable

**Solubility (water):** Negligible

**Percent volatile by volume:** Not Determined

**Evaporation:** Not Determined

**Viscosity (all product grades):** 18-21 mm<sup>2</sup>/s @100deg.C

## 8) STABILITY AND REACTIVITY

**Stability:** Stable

**Condition to Avoid:** Extremes of temperature and direct sunlight.

**Materials to Avoid:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Hazardous decomposition products are not expected from during normal stage.

## 9) DISPOSAL CONSIDERATIONS

**Material Disposal:** Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drain or water courses.

**Container Disposal:** Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of a collector or contractor should be established beforehand.

**Local Legislation:** Disposal should be in accordance with applicable regional, national, and local laws and regulations.

## 10) Transport Information

Land (as per ADG classification): Not regulated