

POWERS-ALL RR ZCF RAILROAD ENGINE OIL SDS-Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Powers-All RR ZCF Railroad Engine Oil, SAE 40
 Powers-All RR ZCF Railroad Engine Oil, SAE 20w-40

Other means of identification: Heavy Duty Railroad Engine Oil

SDS Number: PA335615

CHEMTREC: EMERGENCY CONTACT 1-800-424-9300

Details of the supplier of the data sheet:

Supplier Address

LF Powers Co, Inc.
 45 South 5th St
 Waterbury, CT 06708
 Company Contact Number: 1-800-624-5654
 www.info@lfpowers.com

2. HAZARDS IDENTIFICATION

Classified Hazards

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other Hazards

None Known

Label Elements

No classified hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	Concentration
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	20-35%
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	5-60%
Residual oils (petroleum), solvent dewaxed	64742-62-7	10-55%
Highly refined Mineral oil (C15-C50)	Not Available	3-7%

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SKIN CONTACT FIRST AID: Wash with plenty of soap and water. Remove contaminated clothing and shoes.

INHALATION FIRST AID: If inhaled, move victim to fresh air and keep at rest in a position comfortable for breathing.

INGESTION FIRST AID: Rinse mouth. Do NOT induce vomiting.

NOTES TO PHYSICIAN: Treat symptomatically.

5. FIREFIGHTING MEASURES

NFPA 704 Hazard Class

Health: 1 Flammability: 1 Reactivity: 0



0 (Minimal)
 1 (Slight)
 2 (Moderate)
 3 (Serious)
 4 (Severe)

Flash Point Minimum: 450°F / 232°C
Flash Point Test Method: Cleveland Open Cup (COC)

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Extinguishing Media: Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F/100°C. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Specific hazards arising from the chemical:

Unusual Fire & Explosion Hazards: This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire.

Hazardous Combustion Products: Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.

Special protective actions for firefighters: For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant.

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely. Avoid spreading burning liquid with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction.

INITIAL CONTAINMENT:

Absorb spills with inert material. Do not allow material to enter soil or surface water.

LARGE SPILLS PROCEDURE:

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Do not flush to sewer.

SMALL SPILLS PROCEDURE:

Absorb spills with inert material.

MISCELLANEOUS:

Treat or dispose of in accordance with all federal, state, and local requirements. Incineration is preferred.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools and explosion-proof equipment. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. These products have a low vapor pressure and are not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating these products, do not breathe the vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes.

Conditions for Safe Storage, Including Any Incompatibilities:

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous.

Incompatibilities:

Avoid acids, oxidizing materials, chlorates, nitrates, and peroxides.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

MATERIAL	SOURCE	TYPE	Mg/m3
Lubricating Oil, Petroleum	NIOSH REL	TWA (Mist)	5 mg/m3
Lubricating Oil, Petroleum	NIOSH REL	STEL (Mist)	10 mg/m3
Highly Refined Base Oil	ACGIH TLV	TWA (Inhalable fraction)	5 mg/m3
Highly Refined Base Oil	NIOSH REL	TWA	5 mg/m3

Component Exposure Limits:

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Appropriate Engineering Controls:

Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls.

Individual Protective Measures, such as Personal Protective Equipment:

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: gloves, safety glasses, and lab coat or apron.

Eyes/Face Protection:

Safety glasses with side shields should be worn at a minimum. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Contact lens use is not recommended.

Skin Protection:

Where skin contact is likely, wear chemical impervious protective gloves; use of natural rubber (latex), polyvinyl chloride (PVC) or equivalent gloves is not recommended.

Respiratory Protection:

No respiratory protection is normally required. Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Data represents typical values and are not intended to be specifications.

Appearance/Odor : Amber liquid, petroleum odor.

pH: Not applicable

Boiling Point: ~475°F (246°C) (minimum)

Odor Threshold: Not available

Solubility (H2O): Insoluble

Melting Point: Not available

Density: 7.33 lb/US gal (890 g/l) approximately

Specific Gravity: 0.88 (water = 1)

Evaporation Rate: Not available

Octanol/H2O Coeff.: Not available

Vapor Pressure: < 0.1 mm Hg @ 68°F

Viscosity: 120-160 mm²/s @ 40°C; 11.0 – 17.0 mm²/s @ 100°C

Flash Point Minimum: 450°F (232°C)

Flash Point Test Method: Cleveland Open Cup (COC)

Other Property Information: No additional information is available.

10. STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

POLYMERIZATION: Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with strong oxidizing agents.

DECOMPOSITION: In the case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

CONDITIONS TO AVOID: Excessive heat. Avoid all sources of ignition.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA AND INFORMATION:

Component Analysis - LD50/LC50

Lubricating oils, petroleum, hydrotreated spent (64742-58-1):

Dermal LD50 Rabbit >4480 mg/kg; Oral LD50 Rat >2000 mg/kg

Residual oils (petroleum), solvent dewaxed (64742-62-7):

Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 2.18 mg/L 4 h; Oral LD50 Rat >5000 mg/kg

Highly refined Mineral oil (C15-C50) (Not Available):

Inhalation LC50 Rat 2062 ppm 4 h (related to Oil mist, mineral)

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

Inhalation:

No information on significant adverse effects.

Ingestion:

May be harmful if swallowed.

Skin Contact:

Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).

Eye Contact:

No information on significant adverse effects.

Immediate Effects:

No information on significant adverse effects.

Delayed Effects:

No information on significant adverse effects.

Irritation/Corrosivity:

May cause slight skin and respiratory irritation.

Respiratory Sensitization:

No information available for the product.

Skin Sensitization:

No information available for the product.

CARCINOGENICITY:

Component Carcinogenicity:

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Germ Cell Mutagenicity:

No information available for the product.

Teratogenicity:

No information available for the product.

Reproductive Effects:

No epidemiological data is available for this product.

Specific Target Organ Effects - Single Exposure:

No information on significant adverse effects.

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Specific Target Organ Effects - Repeated Exposure:

No information on significant adverse effects.

Aspiration Hazard:

No data available.

Medical Conditions Aggravated by Exposure:

Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Toxic to aquatic life.

Component Analysis - Ecotoxicity - Aquatic Toxicity:

Lubricating oils, petroleum, hydrotreated spent (64742-58-1)

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Brachydanio rerio	79.6 mg/L [semi-static]
96 Hr LC50 Pimephales promelas	3.2 mg/L [semi-static]

Petroleum distillates, hydrotreated heavy naphthenic (64742-52-5)

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L
48 Hr EC50 Daphnia magna	>1000 mg/L

Residual oils (petroleum), solvent dewaxed (64742-62-7)

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L
48 Hr EC50 Daphnia magna	>1000 mg/L

PERSISTENCE AND DEGRADABILITY:

No information available for the product.

BIOACCUMULATION POTENTIAL:

No information available for the product.

MOBILITY IN SOIL:

No information available for the product.

OTHER ADVERSE EFFECTS:

No additional information is available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. This product, if discarded, is not expected to be a characteristic or listed hazardous waste. If recycled in the USA, it can be managed in accordance with the used oil exemption under 40 CFR Part 279. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of these products.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL:	Powers-All RR ZCF Railroad Engine Oil
D.O.T SHIPPING:	Not Regulated by DOT.
IMDG:	This material is not classified as dangerous under IMDG regulations.
IATA:	This material is not classified as dangerous under IATA regulations.
TRANSPORT CANADA:	This material is not classified as dangerous under Transport Canada regulations.

15. REGULATORY INFORMATION

Volatile Organic Compounds (As Regulated):

Negligible; As per 40 CFR Part 51.100(s)

Federal Regulations:

SARA 302/304

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA 311/312 Hazardous Categories

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive: No

SARA Section 313

Component Analysis

This product does not contain any "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

CERCLA

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product does not contain any "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

TSCA Inventory

All the components of these products are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

16. OTHER INFORMATION

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

END OF SDS

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