



PRODUCT NAME: SILVERFIRE MOTOR OIL, 20W50 PREMIUM 4T
PRODUCT CODE: 9-50-PET

1. SUPPLIER

MANUFACTURED FOR: PJH BRANDS
ADDRESS: 8747 E. Via de Commercio, Scottsdale, AZ 85258 USA
EMERGENCY PHONE: CHEMTREC® 703-527-3887 **SHIPPER:** PJH BRANDS, Contract #CCN17400
DATE REVISED: 9/30/13
REASON REVISED: Updated
INFORMATION PHONE: 1-480-991-8002

2. INGREDIENTS

MATERIAL	CAS#	%BY WT	PEL(OSHA)	TLV(TWA (SKIN))
Petroleum Hydrocarbon	64742-54-7	>75%	None	None
	68037-01-4		None	None
	72623-83-7		None	None
Proprietary Material		<25%	None	None
Zinc Compounds	N/A	< 5%		

Contains zinc salt of dialkyl dithiophosphoric acid judged not to affect the potential health and environmental impact of the product.

Contains no other ingredients now known to be hazardous as defined by OSHA 29 CFR 1910.1000(z).

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Color - Amber to dark, mild petroleum odor. This product is not a health or physical hazard as defined by OSHA.

LOWEST KNOWN LD50 (ORAL)	107-21-1	>5.0 g per kg
LOWEST KNOWN LD50 (SKIN)	107-21-1	Mild Irritant
ACUTE INHALATION LC50		>5000 mo/m3

HAZARD RATING SYSTEM (NFPA)

HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

KEY: 0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe

POTENTIAL HEALTH EFFECTS

Routes of Exposure: Inhalation, Ingestion, Skin Contact/Absorption, Eye Contact

Eye: May cause slight transient (temporary) eye irritation. Vapors or mists may cause eye irritation.

SKIN: The products represented by the MSDS can cause mild transient skin irritation in some individuals.

INGESTION: Generally of a low order of toxicity. Upon ingestion of large quantities, slight gastrointestinal discomfort, diarrhea and headache may occur. Small doses may produce irritation and/or diarrhea.



INHALATION: Generally of a low risk of inhalation at ambient temperatures. Mists or vapors at concentrations above applicable workplace exposure levels may cause drowsiness, dizziness, headache, nausea or respiratory irritation. Elevated mist concentrations above applicable workplace exposure levels may cause lung damage.

4. FIRST AID MEASURES

Ensure physician has access to this MSDS

- Eyes:** Immediately flush eyes with large amounts of water for 15 minutes, lifting lower and upper lids. Get medical attention if complications arise.
- Skin:** Wash with soap and water. Remove contaminated clothing and launder before reuse. Seek medical attention if skin irritation persists.
- Inhalation:** If inhaled, immediately remove victim to fresh air and call emergency medical care. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Ingestion:** Induce vomiting only upon the advice of a physician. Never give anything by mouth to a person who is not fully conscious. Seek medical attention immediately.

Note to Physician: The Saybolt viscosity ranges for the products covered by this MSDS are less than 400 SUS at 100 F. Upon ingestion, the risk of aspiration into the lungs is very low. For ingestion of large quantities, lavage or emesis may be considered for evacuation of the material. Subcutaneous or intramuscular injection requires prompt surgical debridement.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
FLASH POINT: 155-286 C (310-547 F)
METHOD USED: TCC
COMBUSTIBLE

FLAMMABILITY LIMITS
1% VOLUME IN AIR
LOWER: ND UPPER: ND

EXTINGUISHING MEDIA: Water fog or fine spray. Alcohol resistant foams (ATC type) are preferred if available. General-purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively. Carbon dioxide. Dry chemical. Do not use direct water stream. May spread fire.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS: Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots). Including a positive pressure niosh approved self-contained breathing apparatus. Cool fire exposed containers with water.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure, self-contained breathing apparatus (SABA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots and gloves).



6. ACCIDENTAL RELEASE MEASURES

PROTECT PEOPLE: Material is slightly toxic when ingested. Take adequate precautions to keep people, especially children away from spill site. PVC-coated rubber gloves and monogoggles or face shield can be used during cleanup of spill site.

PROTECT THE ENVIRONMENT: Do not dump used product or diluted material into sewers, on the ground or into any body of water.

CLEAN UP: Small spills: Soak up with absorbent material. Large spill: Dike and pump into suitable containers for disposal. Ensure compliance with all applicable statues that require notification of appropriate government officials.

7. HANDLING AND STORAGE

Product on surfaces can cause discoloring to paint. Practice reasonable care and cleanliness. Avoid breathing spray mists. Keep out of reach of children. This product is stable - avoid heat, sparks, flame and contact with strong oxidizing agents.

Carbon monoxide and unidentified organic compounds may be formed during combustion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Normally none required. At elevated temperatures, vapor or mist concentrations may exceed applicable workplace exposure levels. Use NIOSH or MSHA approved organic vapor/mist chemical cartridge respirator when elevated airborne concentrations are anticipated.

Skin Protection: Protective gloves recommended when prolonged skin contact cannot be avoided. Polyethylene; Neoprene; Nitrile; Polyvinyl alcohol; Natural Rubber, Butyl Rubber. Safety shower should be available.

Eye Protection: Safety goggles and face shield. Emergency eyewash should be available. Contact lenses should not be worn when working with this chemical.

Engineering Controls: Use general or local exhaust ventilation to meet TLV requirements.

9. PHYSICAL PROPERTIES

BOILING RANGE:	360-400 C (600-770 F)
FREEZE POINT:	Not Known
FLASH POINT:	311-468c (592-875 f)
SPECIFIC GRAVITY (Water = 1):	.87 to .93
POUNDS/GALLONS	7.20
VAPOR PRESSURE:	Not known
VAPOR DENSITY (air = 1)	>1
WATER SOLUBILITY:	negligible
EVAPORATION RATE (BuAc = 1)	<1
% VOLATILE BY VOLUME:	negligible
APPEARANCE:	Amber to dark
ODOR:	Slight odor



10. STABILITY and REACTIVITY

STABILITY: Stable
 CONDITIONS TO AVOID: Isolate from oxidizers, heat & open flame.
 MATERIAL TO AVOID: Isolate from strong oxidizers such as permanganates, chromates & peroxides.
 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide from burning.
 HAZARDOUS POLYMERIZATION: Material is not known to polymerize.

11. TOXICOLOGICAL INFORMATION

Highly Toxic	No	Sensitizer	No
Toxic	No	Reproductive Effects	No
Corrosive	No	Mutagen	No
Irritant	No	Target Organ	No

12. DISPOSAL CONSIDERATIONS

DO NOT discharge to sewer. Wear appropriate personal protection. Take up with sand, vermiculite or similar inert material. Dispose in accordance with federal, state and local regulations.

13. TRANSPORT INFORMATION

Proper Shipping Name: Petroleum Lubricating Oil	ID No: Not regulated
Hazard Class: Non-hazardous	Packaging Group: Consumer commodity ORM-O
Dot Shipping Label: Not regulated	
Export:	Dot Class: Combustible
Shipping Label:	Compatibility Category: Group 33
Placard: None	

DOT combustible liquids with a flash >141 F are not regulated by DOT in containers of 110 gallons, or less for domestic shipments.

14. REGULATORY INFORMATION

THIS PRODUCT CONTAINS COMPONENT(S) CITED ON THE FOLLOWING REGULATIONS.

CHEMICAL NAME	CAS NUMBER
Lubricating Oil	64741-88-4 and 64742-57-0

Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 313 - Toxic Chemicals

The products represented by this MSDS may contain components in concentrations above *de minimis* levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA as follows:

<u>Components</u>	<u>CAS No.</u>	<u>Concentration (%)</u>
Zinc Compounds	NA	<2



Section 311/312 - Hazard Categories

This product may meet one or more of the hazard categories defined in 40 CFR Part 370 as established by Sections 311 and 312 of SARA as indicated below:

Immediate (Acute) Health Hazard	No	Sudden Release of Pressure Hazard	No
Delayed (Chronic) Health Hazard	No	Reactive Hazard	No
Fire Hazard	No	Carcinogen	No

Section 302 - Extremely Hazardous Substances

This product is not known to contain any components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 pursuant to the requirements of Section 302(a) of SARA.

Clean Water Act (CWA)

Under the CWA, discharges of crude oil and petroleum products to surface water without proper Federal and State permits must be reported immediately to the National Response Center at (800) 424-8802.

Comprehensive Environmental Response, Compensation, & Liability Act (CERCLA) Section 102 Hazardous Substances

As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance.

California Proposition 65 (The Safe Drinking Water and Toxics Enforcement Act)

This product contains components that are known to the State of California to be:

Carcinogenic: No

Teratogenic: No

15. DISCLAIMER

The information in this MSDS was obtained from sources, which are believed to be reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness. It relates only to the material designated herein and does not relate to use in combination