

MATERIAL SAFETY DATA SHEET

15W40 API CH-4/SJ HEAVY DUTY DIESEL ENGINE OIL

1. GENERAL INFORMATION

Primary Application: 15w40 Diesel Engine Oil

Manufacturer's Name: Zappi Oil Company
Address: 44 Bridge Street
Washington, PA 15301

Emergency Telephone: 800-732-3535

2. HAZARDOUS INGREDIENTS / IDENTIFY INFORMATION

Hazardous Components (Specific Chemical Identity; Common Names, Synonyms):
Motor Oil / Multi-Viscosity

CAS Name: Mixture
Chemical Family: Blend

Components

Severely Solvent Refined Heavy Paraffinic Petroleum Oil CAS# 64741-88-4
Zinc Salt Dialkyl Dithiophosphoric Acid
Copolymer of Ethylene and Propylene
Dialkyl Fumarate / Vinyl acetate copolymer

3. PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	>675 F	Specific Gravity:	0.88
Vapor Pressure (mm Hg.)	<0.1	Vapor Density (Air = 1)	>10
Solubility in Water:	Negligible	Appearance:	Amber with lube oil odor

4. FIRE AND EXPLOSION DATA

Flash Point (Method Used): >435 F (ASTM D-92)

Fire and Explosion Hazards: Slightly combustible. OSHA/NFPA Class IUB Combustible liquid. When heated above its flash point, this material will release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to an ignition source. Mists or sprays may be flammable at temperatures below the normal flash point. Keep away from extreme heat and open flame.

Extinguishing Media: Dry chemical and carbon dioxide. Foam and water fog are effective but cause frothing.

Special Fire fighting Procedures: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of combustion products and oxygen deficiencies. If fire fighters cannot work upwind to the fire, respiratory protective equipment must be worn. Cool tanks and container exposed to fire with water. Burning liquid will float on water. Notify appropriate authorities if liquid enters sewer / waterways.

<u>Hazard Rating</u>	<u>NFPA / HMIS Classification</u>	
0 = Least	Health	0/0
1 = Slight	Fire	1/1
2 = Moderate	Reactivity	0/0
3 = High	Personal Protection Index	X
4 = Extreme		

5. HEALTH HAZARDS

Summary of Acute Hazards: Not expected to present a significant health hazard upon short term exposure.

Route of Exposure**Signs and Symptoms**

Inhalation

No significant adverse health effects are expected to occur upon short term exposure.

Eye Contact

No irritation is expected from short term exposure.

Skin Absorption

No significant adverse health effects are expected to occur upon short term exposure.

Skin Irritation

No irritation is expected from short term exposure.

Route of Exposure (cont.)**Signs and Symptoms (cont.)**

Ingestion

No significant adverse health effects are expected to occur upon short term exposure.

Chronic Hazards

Prolonged and/or repeated contact with this material produces skin irritation and inflammation.

Special Health Effects

Personnel with pre-existing skin disorders should avoid contact

Carcinogen Listed By

IARC (no) NTP (no) OSHA (no)
ACGIH (no) Other (no)

6. PROTECTIVE EQUIPMENT AND OTHER CONTROL MEASURES

Respiratory:

None is needed under anticipated use conditions with adequate ventilation. If exposure exceeds the occupational exposure limits, follow OSHA standards or equivalent and wear proper NIOSH / MSHA approved respiratory equipment.

Eye:

Safety glasses should be adequate protection under most conditions of use. Wear goggles and/or face shield if splashing is likely. Especially if heated above 125 F. Have suitable eye wash water available.

Skin:

Avoid prolonged and/or repeated skin contact, or wear impervious protective clothing. When leaving work, wash hands / exposed skin with soap and water.

Engineering Controls:

Use adequate ventilation to oil mists of this material below applicable standards.

Other Hygienic & Work Practices:

Wash hands with plenty of soap and water before eating, drinking, smoking, or use of toilet facilities. Do not use gasoline, solvents, kerosene or harsh abrasive skin cleaners for washing exposed skin areas. Take a shower after work if general contact occurs. Remove oil-soaked clothing and launder before reuse. Launder or discard contaminated leather gloves and shoes.

7. EMERGENCY AND FIRST AID

- Inhalation:** Vaporization is not expected at ambient temperatures and this material is not expected to be an inhalation problem under anticipated conditions of use. In case of over exposure, move person to fresh air.
- Eye Contact:** Flush eyes with clean low pressure water for at least 15 minutes, occasionally lifting the eye lids. If pain or redness persists after flushing, obtain medical attention.
- Skin Contact:** Remove by wiping, then wash skin thoroughly with plenty of soap and water. Remove contaminated clothing and thoroughly clean before reuse. Discard contaminated leather gloves and shoes.

8. SPILL AND DISPOSAL

Precautions if material is spilled or released: Contain spill and prevent it from entering all water bodies, if possible. Safely stop flow of spill. Evacuate non-essential personnel from immediate spill area due to slipping hazards. In urban area, clean up as soon as possible. In natural environments, clean up on advice from ecologists. This material will float on water. Absorbent materials and pads can be used. Comply with all applicable laws. The spilled material and any soil or water which it has contacted may be hazardous to animal / aquatic life.

Waste Disposal Methods: Maximize product recovery for reuse or recycling. Conditions of use may cause this material to become a "hazardous waste", as defined by State or Federal laws. Use approved treatment, transports, and disposal sites in compliance with all applicable laws if spill is introduced into a waste-water treatment system. Chemical is biodegradable if gradually exposed to microorganisms. Potential treatment and disposal methods include land farming, incineration, and land disposal if permitted.

9. ADDITIONAL PRECAUTIONS

Handling, Storage, and Decontamination Procedures: To avoid product degradation, water contamination should be avoided and minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures (>200 F) should be minimized. Product degradation might increase health hazard risks.

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