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**Material Safety Data Sheet (MSDS)**

MATERIAL SAFETY DATA SHEET  
 The Valvoline Company Page 001  
 Date Prepared: 01/14/02  
 Date Printed: 01/02/07  
 MSDS No: 505.0171784-012.002  
 ALL FLEET PLUS MOTOR OIL SAE 15W40

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION  
 Material Identity  
 Product Name: ALL FLEET PLUS MOTOR OIL SAE 15W40  
 SAP Material No: VV387  
 General or Generic ID: PETROLEUM BASED-LUBRICATING OIL  
 Company Telephone Number:

No data

Cancer Information

Used motor oil has been shown to cause skin cancer in laboratory animals continually exposed by repeated applications. Avoid prolonged or repeated skin contact.

Other Health Effects

No data

Primary Route(s) of Entry

No data

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4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Note to Physicians

This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 3 - Swallowing) when deciding whether to induce vomiting. Preexisting disorders of the following organs ( or organ systems) may be aggravated by exposure to this material: skin.

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5. FIRE FIGHTING MEASURES

Flash Point

> 425.0 F (218.3 C) COC

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Explosive Limit

No data

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: boric oxide, calcium oxide, carbon dioxide and carbon monoxide, magnesium oxide, oxides of sulfur, nitrogen and phosphorus, various hydrocarbons, zinc oxide.

Fire and Explosion Hazards

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Dense smoke may be generated while burning.

Extinguishing Media

regular foam, carbon dioxide, dry chemical.

Fire Fighting Instructions

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

## NFPA Rating

Health - 1, Flammability - 1, Reactivity - 0

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6. ACCIDENTAL RELEASE MEASURES

## Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

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Large Spill

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

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7. HANDLING AND STORAGE

## Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

## Storage

Not applicable

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Eye Protection

Not required under normal conditions of use. However, if misting or splashing conditions exist, then safety glasses or chemical splash goggles are advised.

## Skin Protection

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation which may result from prolonged or repeated skin contact with product. Wear normal work clothing covering arms and legs.

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Respiratory Protections

Not required under normal conditions of use. However, if oil mists are generated above recommended PEL/TLV of 5 mg/m<sup>3</sup>, then a NIOSH/MSHA approved respirator is advised in absence of proper environmental control. (See your industrial hygienist.)

## Engineering Controls

Not required under normal conditions of use. However, if unusual operating conditions exist, then provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL/TLV (s).

## Exposure Guidelines

## Component

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ALIPHATIC PETROLEUM DISTILLATES (64742-65-0)

OSHA VPEL 5.000 mg/m<sup>3</sup> - TWA Oil MistACGIH TLV 5.000 mg/m<sup>3</sup> - TWA Oil Mist

DETERGENT/DISPERSANT ENGINE OIL PACKAGE

No exposure limits established

PETROLEUM DISTILLATE (64741-88-4)

OSHA VPEL 5.000 mg/m<sup>3</sup> - TWAACGIH TLV 5.000 mg/m<sup>3</sup> - TWA

ZINC DIALKYL DITHIOPHOSPHATE (68649-42-3)

No exposure limits established

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9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point  
No data

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Vapor Pressure  
No data  
Specific Vapor Density  
No data  
Specific Gravity  
.890 @ 60.00 F  
Liquid Density  
7.400 lbs/gal @ 60.00 F  
.890 kg/l @ 15.60 C  
Percent Volatiles (Including Water)  
No data  
Evaporation Rate  
No data  
Appearance  
No data  
State  
LIQUID  
Physical Form  
No data  
Color  
AMBER  
Odor  
PETROLEUM  
pH  
Not applicable

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Viscosity  
<= 7000.0 cps @ -20 C  
14.5 - 15.5 cst @ 100 C

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#### 10. STABILITY AND REACTIVITY

Hazardous Polymerization  
Product will not undergo hazardous polymerization.  
Hazardous Decomposition  
May form: boric oxide, calcium oxide, carbon dioxide and carbon monoxide, magnesium oxide, oxides of sulfur, nitrogen and phosphorus, various hydrocarbons, zinc oxide.  
Chemical Stability  
Stable.  
Incompatibility  
Avoid contact with: strong acids, strong oxidizing agents.

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#### 11. TOXICOLOGICAL INFORMATION

No data

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#### 12. ECOLOGICAL INFORMATION

No data

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#### 13. DISPOSAL CONSIDERATION

Waste Management Information  
Dispose of in accordance with all applicable local, state and federal regulations.

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**14. TRANSPORT INFORMATION**

DOT Information - 49 CFR 172.101

DOT Description:

Not Regulated

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

NOS Component:

None

RQ (Reportable Quantity) - 49 CFR 172.101

Not applicable

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**15. REGULATORY INFORMATION**

US Federal Regulations

CERCLA RQ - 40 CFR 302.4

None

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate(X) Delayed( ) Fire( ) Reactive( ) Sudden

Release of Pressure( )

SARA 313 Components - 40 CFR 372.65

Section 313 Component(s) CAS Number

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ZINC C1-C14 ALKYL DITHIOPHOSPHATE 68649-42-3

International Regulations

Inventory Status

Not determined

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**State and Local Regulations**

California Proposition 65

None

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**16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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