

City of Sanford  
Part # 360

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 001

Date Prepared: 07/24/03

Date Printed: 11/01/04

MSDS No: 505.0394062-001.001

**ATF MERCON V**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: ATF MERCON V

SAP Material No: VV360

Company

Telephone Numbers

The Valvoline Company

Emergency: 1-800-274-5263

P.O. Box 14000

Lexington, KY 40512

Information: 1-859-357-7206

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY P	64742-54-7	77.0- 87.0
AUTOMATIC TRANSMISSION FLUID ADDITIVE		4.4- 14.0
VICOSITY INDEX IMPROVER		3.8- 14.0
POLYALKYLMETHACRYLATE		1.6- 12.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause eye irritation

Skin

Prolonged or repeated contact may dry and crack the skin

Additional symptoms of skin contact may include: acne, Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use

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Swallowing

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects

Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8)

Symptoms of Exposure

Signs and symptoms of exposure to this material through breathing swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea irritation (nose, throat, airways)

Target Organ Effects

No data

Developmental Information

There are no data available for assessing risk to the fetus from maternal exposure to this material

Cancer Information

This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration

Other Health Effects

No data

Primary Route(s) of Entry

Inhalation, Skin contact, Eye contact, Ingestion

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4. FIRST AID MEASURES

Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty seek 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

Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities. Preexisting disorders of the following organs ( or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions).

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5. FIRE FIGHTING MEASURES

Flash Point

210.0 F (98.8 C)

Explosive Limit

No data

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: aldehydes, carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus, various hydrocarbons

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. Water may be used to keep fire-exposed containers cool until fire is out. 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. Persons not wearing proper personal protective equipment should be excluded from area of spill. Scoop or scrape

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up. Put in container for recovery or disposal

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. Precautions during use: avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing impervious protective gloves. As with all

products of this nature, good personal hygiene is essential  
Hands and other exposed areas should be washed thoroughly with  
soap and water after contact, especially before eating and/or  
smoking. Regular laundering of contaminated clothing is essential  
to reduce indirect skin contact with this material

#### Storage

Containers should be stored in a cool, dry, well-ventilated area  
Store away from flammable materials, sources of heat and flame and  
foodstuffs. Exercise caution to prevent damage to or leakage from  
the container. Guard against water contamination to prevent  
decomposition

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Eye Protection

Chemical splash goggles in compliance with OSHA regulations are  
advised; however, OSHA regulations also permit other type safety  
glasses. Consult your safety representative

##### 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

##### Respiratory Protections

If workplace exposure limit(s) of product or any component is

exceeded (See Exposure Guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure

#### Engineering Controls

Provide sufficient mechanical (general and/or local exhaust ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects)

#### Exposure Guidelines

Component

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DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC (64742-54-7

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

ACGIH TLV 5.000 mg/m<sup>3</sup> - TWA

AUTOMATIC TRANSMISSION FLUID ADDITIVE

No exposure limits established

VICOSITY INDEX IMPROVER

No exposure limits established

POLYALKYLMETHACRYLATE

No exposure limits established

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9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

No data

Vapor Pressure

(for product) .000

Specific Vapor Density

No data

Specific Gravity

.849 @ 60.00 F

Liquid Density

7.070 lbs/gal @ 60.00 F

7.070 lbs/gal @ 60.00 F

Percent Volatiles (Including Water)

No data

Evaporation Rate

No data

Appearance

CLEAR, DRY, & BRIGHT

State

LIQUID

Physical Form

No data

Color

RED

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Odor

No data

pH

No data

Viscosity

7.1        cst        @        100 C

33.7       cst        @        40 C

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10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization

Hazardous Decomposition

May form: carbon dioxide and carbon monoxide, oxides of sulfur  
nitrogen and phosphorus, various hydrocarbons

Chemical Stability

Stable

Incompatibility

Avoid contact with: 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

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed

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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

None

International Regulations

Inventory Status

AICS (AUSTRALIA) This material or a component requires notification before sale or importation

ECL (SOUTH KOREA) The intentional ingredients of this product are listed

ENCS (JAPAN) This material or a component requires notification before sale or importation

PICCS (PHILIPPINES) This material or a component requires notification before sale or importation

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