

VALVOLINE® AW 32 HYDRAULIC  
OIL VV040

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| <b>1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING</b> |
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|                    |                               |                                   |
|--------------------|-------------------------------|-----------------------------------|
| Ashland            | Regulatory Information Number | 1-800-325-3751                    |
| P.O. Box 2219      | Telephone                     | 614-790-3333                      |
| Columbus, OH 43216 | Emergency telephone           | 1-800-ASHLAND<br>(1-800-274-5263) |

|                         |                                |
|-------------------------|--------------------------------|
| Product name            | VALVOLINE® AW 32 HYDRAULIC OIL |
| Product code            | VV040                          |
| Product Use Description | No data                        |

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| <b>2. HAZARDS IDENTIFICATION</b> |
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**Emergency Overview**

Appearance: liquid,, amber

CAUTION! PROLONGED OR REPEATED CONTACT MAY DRY SKIN  
AND CAUSE IRRITATION.

**Potential Health Effects**

**Routes of exposure**

Inhalation, Skin contact, Eye Contact, Ingestion

**Eye contact**

Unlikely to cause eye irritation or injury.

**Skin contact**

May cause mild skin irritation. Prolonged or repeated contact may dry the skin.  
Symptoms may include redness, burning, drying and cracking of skin, and skin burns.

**Ingestion**

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

**Inhalation**

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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. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

**Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, lung (for example, asthma-like conditions)

**Symptoms**

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), Abdominal pain

**Target Organs**

No data

**Carcinogenicity**

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA). Used motor oil has been shown to cause skin cancer in laboratory animals continually exposed by repeated applications. Avoid prolonged or repeated skin contact.

**Reproductive hazard**

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

**Other information**

No data

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Components                                                | CAS-No.    | Concentration |
|-----------------------------------------------------------|------------|---------------|
| DISTILLATES (PETROLEUM),<br>HYDROTREATED HEAVY PARAFFINIC | 64742-54-7 | >=90-<=100%   |

**4. FIRST AID MEASURES**

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**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.

**Ingestion**

Do not induce vomiting. Give one glass of milk or water, and get medical attention immediately. If possible, do not leave victim unattended.

**Inhalation**

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

**Notes to physician**

**Hazards:** 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.

**Treatment:** No information available.

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| <b>5. FIRE-FIGHTING MEASURES</b> |
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**Suitable extinguishing media**

Foam, Carbon dioxide (CO<sub>2</sub>), Dry chemical

**Hazardous combustion products**

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

**Precautions for fire-fighting**

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Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid.

**Flammability Class for Flammable Liquids**

Combustible Liquid Class IIIB Combustible Liquid Class IIIB

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| <b>6. ACCIDENTAL RELEASE MEASURES</b> |
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**Personal precautions**

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

**Environmental precautions**

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.

**Methods for cleaning up**

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

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| <b>7. HANDLING AND STORAGE</b> |
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**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**

Store in a cool, dry, ventilated area. Keep containers closed when not in use.

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| <b>8. EXPOSURE CONTROLS / PERSONAL PROTECTION</b> |
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**Exposure Guidelines**

**General advice**

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These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

**Exposure controls**

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

**Eye protection**

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

**Skin and body protection**

Wear resistant gloves (consult your safety equipment supplier). Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

**Respiratory protection**

Respiratory protection is not required under normal conditions of use.

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| <b>9. PHYSICAL AND CHEMICAL PROPERTIES</b> |
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|------------------------------------|-------------------------------------|
| <b>Physical state</b>              | liquid                              |
| <b>Form</b>                        | No data                             |
| <b>Colour</b>                      | amber                               |
| <b>Odour</b>                       | oily                                |
| <b>Boiling point/boiling range</b> | 425 °F / 218 °C@ 760 mmHg           |
| <b>pH</b>                          | No data                             |
| <b>Flash point</b>                 | 354.99 °F / 179.44 °C               |
| <b>Evaporation rate</b>            | > 1 (Ethyl Ether)                   |
| <b>Explosion limits</b>            | No data                             |
| <b>Vapour pressure</b>             | 0.0133333 hPa @ 70.00 °F / 21.11 °C |
| <b>Vapour density</b>              | No data                             |

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|                                               |                                                                                  |
|-----------------------------------------------|----------------------------------------------------------------------------------|
| <b>Density</b>                                | 0.864 g/cm <sup>3</sup> @ 60.01 °F / 15.56 °C<br>7.28 lb/gal @ 60.1 °F / 15.6 °C |
| <b>Solubility</b>                             | No data                                                                          |
| <b>Partition coefficient: n-octanol/water</b> | No data                                                                          |
| <b>Autoignition temperature</b>               | No data                                                                          |

## 10. STABILITY AND REACTIVITY

### Stability

Stable

### Conditions to avoid

### Incompatible products

Avoid contact with:, strong oxidizing agents

### Hazardous decomposition products

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

### Hazardous reactions

Product will not undergo hazardous polymerization.

### Thermal decomposition

No data

## 11. TOXICOLOGICAL INFORMATION

### Acute oral toxicity

DISTILLATES (PETROLEUM),  
HYDROTREATED HEAVY  
PARAFFINIC

LD 50 Rat: 15 g/kg

### Acute inhalation toxicity

### Acute dermal toxicity

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DISTILLATES (PETROLEUM),  
HYDROTREATED HEAVY  
PARAFFINIC

LD 50 Rabbit: 5 g/kg

## 12. ECOLOGICAL INFORMATION

### Aquatic toxicity

#### Acute and Prolonged Toxicity to Fish

No data

#### Acute Toxicity to Aquatic Invertebrates

No data

### Environmental fate and pathways

No data

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal methods** Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

## 14. TRANSPORT INFORMATION

Dangerous goods descriptions (if indicated above) may not reflect package size, quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## 15. REGULATORY INFORMATION

### California Prop. 65

Proposition 65 warnings are not required for this product based on the results of a risk assessment.

**ASHLAND**  
**SAFETY DATA SHEET**

Page: 8  
Revision Date: 11/19/2007  
Print Date: 1/11/2008  
MSDS Number: R0074103  
Version: 1.5

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**SARA Hazard Classification** Acute Health Hazard

**SARA 313 Component(s)**

PHENOL 108-95-2 0.0067%

|             | <b>Health</b> | <b>Flammability</b> | <b>Reactivity</b> | <b>Other</b> |
|-------------|---------------|---------------------|-------------------|--------------|
| <b>HMIS</b> | 1*            | 1                   | 0                 |              |
| <b>NFPA</b> | 1             | 1                   | 0                 |              |

**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. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).