

## SAFETY DATA SHEET

Revision Date: 04/24/2012

Print Date: 3/25/2015

MSDS Number: R0172415

Version: 3.0

Valvoline™ Multi-Purpose 2-Cycle TC-W3

MOTOR OIL

VV461

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

|                    |                               |                                |
|--------------------|-------------------------------|--------------------------------|
| Ashland            | Regulatory Information Number | 1-800-325-3751                 |
| P.O. Box 2219      | Telephone                     | 614-790-3333                   |
| Columbus, OH 43216 | Emergency telephone number    | 1-800-ASHLAND (1-800-274-5263) |

Product name Valvoline™ Multi-Purpose 2-Cycle TC-W3 MOTOR OIL

Product code VV461

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance: liquid,

CAUTION! COMBUSTIBLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS.

#### Potential Health Effects

##### **Exposure routes**

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

##### **Eye contact**

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

##### **Skin contact**

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

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### 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

Breathing of vapor or mist is possible. 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, Upper respiratory tract, lung (for example, asthma-like conditions), Kidney, immune system, eye, Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias., Individuals with erythrocyte glucose-6-phosphate dehydrogenase deficiency are particularly susceptible to hemolytic agents and rapidly develop hemolytic anemia from ingestion or inhalation of this material (or a component).

### Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: acne, sweating, Fever, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Lung irritation, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), Abdominal pain, Lack of coordination, confusion, irregular heartbeat, blood abnormalities (breakage of red blood cells), narcosis (dazed or sluggish feeling), kidney damage, lung damage, Convulsions, respiratory failure, coma

### Target Organs

This material (or a component) has been shown to lower activity of certain immune system cells in experimental animals. The significance of this effect with respect to human health is uncertain., Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, cataracts, anemia, nasal damage, eye damage, central nervous system damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: cataracts, eye damage

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### Carcinogenicity

Used motor oil has been shown to cause skin cancer in laboratory animals continually exposed by repeated applications. Avoid prolonged or repeated skin contact. In a National Toxicology Program (NTP) study, lifetime inhalation exposure to naphthalene resulted in increases in tumors of the nose in rats. In a previous NTP study, lifetime exposure to naphthalene caused lung tumors in female mice. Male mice with the same exposure did not develop tumors. The relevance of this finding to humans is uncertain. Naphthalene is listed as carcinogenic by IARC (International Agency for Research on Cancer) and the National Toxicology Program (NTP).

### Reproductive hazard

This material (or a component) causes harm to the fetus.

### Other information

Infants are more sensitive than adults to the toxic effects of naphthalene. Diapers or cloths stored with mothballs and used directly on infants have caused skin rashes and illness. Naphthalene vapors from clothing or blankets that had been stored in or near the infant's room have caused illness and death.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components                             | CAS-No. / Trade Secret No. | Concentration |
|--|----------------------------|---------------|
| HEAVY PARAFFINIC DISTILLATE                      | 64742-54-7                 | >=30-<40%     |
| DISTILLATES (PETROLEUM),<br>HYDROTREATED LIGHT   | 64742-47-8                 | >=30-<40%     |
| DISTILLATES, SOLVENT-REFINED HEAVY<br>PARAFFINIC | 64741-88-4                 | >=30-<40%     |
| SOLVENT NAPHTHA (PETROLEUM), HEAVY<br>AROMATIC   | 64742-94-5                 | >=1.5-<5%     |

## 4. FIRST AID MEASURES

### Eyes

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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. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

### Ingestion

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.

### Notes to physician

**Hazards:** This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting. 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. Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. Inhalation or ingestion of high levels of this material (or a component) may cause a hemolytic reaction. Complications of acute intravascular hemolysis include anemia, leukocytosis, fever, hemoglobinuria, jaundice, renal insufficiency, and sometimes disturbances in liver function. Fats, for example, baby oil on the skin or ingested oil, facilitate absorption of naphthalene.

**Treatment:** No information available.

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### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

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

#### Hazardous combustion products

carbon dioxide and carbon monoxide, Hydrocarbons, nitrogen oxides (NO<sub>x</sub>), Sulphur oxides

#### Precautions for fire-fighting

If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. 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). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

#### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIA

### 6. ACCIDENTAL RELEASE MEASURES

#### 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. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

#### Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

#### Methods for cleaning up

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Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### Other information

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

## 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. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

### Storage

Store in a cool, dry, ventilated area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

|  |                                   |                   |             |
|--|-----------------------------------|-------------------|-------------|
| <b>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT</b>   |                                   | <b>64742-47-8</b> |             |
| ACGIH  | time weighted average             | 200 mg/m3         | Non-aerosol |
| NIOSH  | Recommended exposure limit (REL): | 100 mg/m3         |             |
| <b>DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC</b> |                                   | <b>64741-88-4</b> |             |
| OSHA Z1  | Permissible exposure limit        | 500 ppm           | Mist.       |
| OSHA Z1  | Permissible exposure limit        | 2,000 mg/m3       |             |
| NIOSH  | Recommended exposure limit (REL): | 5 mg/m3           |             |
| NIOSH  | Short term exposure limit         | 10 mg/m3          |             |

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OSHA Z1  
ACGIHPermissible exposure limit  
time weighted average

5 mg/m3

5 mg/m3

Mist.  
Inhalable fraction.

### General advice

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

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

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

### Skin and body protection

Wear resistant gloves such as:

Neoprene

Nitrile rubber

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.

Discard gloves that show tears, pinholes, or signs of wear.

### Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|  |  |
|--|--|
| <b>Physical state</b>                              | liquid   |
| <b>Odour</b>                                       | hydrocarbon-like                                   |
| <b>Boiling point/boiling range</b>                 | (>)356 °F / 180 °C @ 760.00 mmHg                   |
| <b>Melting point/range</b>                         | (<)-38 °F / -39 °C                                 |
| <b>Flash point</b>                                 | 151 °F / 66 °C Cleveland open cup                  |
| <b>Evaporation rate</b>                            | 0.1 butyl acetate=1                                |
| <b>Lower explosion limit/Upper explosion limit</b> | 1.0 %(V) / 6.0 %(V)                                |
| <b>Vapour pressure</b>                             | 0.200 mmHg @ 68 °F / 20 °C                         |
| <b>Density</b>                                     | (Average) 0.8550 g/cm <sup>3</sup> @ 68 °F / 20 °C |
| <b>Water solubility</b>                            | insoluble  |
| <b>Viscosity, kinematic</b>                        | 6.9 mm <sup>2</sup> /s                             |

### 10. STABILITY AND REACTIVITY

#### Stability

Stable.

#### Conditions to avoid

Heat, flames and sparks.

#### Incompatible products

Strong oxidizing agents, strong reducing agents

#### Hazardous decomposition products

carbon dioxide and carbon monoxide, Hydrocarbons, Sulphur oxides

#### Hazardous reactions

Product will not undergo hazardous polymerization.

### 11. TOXICOLOGICAL INFORMATION



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### Acute oral toxicity

|                               |                     |
|-------------------------------|---------------------|
| Acute oral toxicity - Product | : no data available |
|-------------------------------|---------------------|

### Acute oral toxicity - Components

|                             |                                 |
|-----------------------------|---------------------------------|
| HEAVY PARAFFINIC DISTILLATE | : LD 50: > 15 g/kg Species: Rat |
|-----------------------------|---------------------------------|

|   |                                     |
|---|-------------------------------------|
| DISTILLATES (PETROLEUM), HYDROTREATED LIGHT | : LD 50: > 8,000 mg/kg Species: Rat |
|---|-------------------------------------|

|   |                                     |
|---|-------------------------------------|
| DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC | : LD 50: > 5,000 mg/kg Species: Rat |
|---|-------------------------------------|

|   |                                   |
|---|-----------------------------------|
| SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC | : LD 50: 3,000 mg/kg Species: Rat |
|---|-----------------------------------|

### Acute inhalation toxicity

|                                     |                     |
|-------------------------------------|---------------------|
| Acute inhalation toxicity - Product | : no data available |
|-------------------------------------|---------------------|

### Acute inhalation toxicity - Components

|   |   |
|---|---|
| DISTILLATES (PETROLEUM), HYDROTREATED LIGHT | : LC 50: > 2500 ppm Exposure time: 4 h Species: Rat |
|---|---|

|   |   |
|---|---|
| DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC | : LD 50: > 3.9 mg/l Exposure time: 4 h Species: Rat |
|---|---|

|   |  |
|---|--|
| SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC | : LC 50: > 3,800 mg/m3 Exposure time: 4 h Species: Rat |
|---|--|

### Acute dermal toxicity

|                                 |                     |
|---------------------------------|---------------------|
| Acute dermal toxicity - Product | : no data available |
|---------------------------------|---------------------|

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|         |
|---------|
| Product |
|---------|

**Acute dermal toxicity - Components**

|                                |                                   |
|--------------------------------|-----------------------------------|
| HEAVY PARAFFINIC<br>DISTILLATE | : LD 50: > 5 g/kg Species: Rabbit |
|--------------------------------|-----------------------------------|

|  |  |
|--|--|
| DISTILLATES<br>(PETROLEUM),<br>HYDROTREATED<br>LIGHT | : LD 50: > 4,000 mg/kg Species: Rabbit |
|--|--|

|   |  |
|---|--|
| DISTILLATES,<br>SOLVENT-REFINED<br>HEAVY PARAFFINIC | : LD 50: > 2,000 mg/kg Species: Rabbit |
|---|--|

|   |  |
|---|--|
| SOLVENT NAPHTHA<br>(PETROLEUM), HEAVY<br>AROMATIC | : LD 50: > 3,000 mg/kg Species: Rabbit |
|---|--|

**Acute toxicity (other routes of administration)**

|  |                     |
|--|---------------------|
| Acute toxicity (other<br>routes of administration) | : no data available |
|--|---------------------|

## 12. ECOLOGICAL INFORMATION

**Biodegradability**

|                            |                     |
|----------------------------|---------------------|
| Biodegradability - Product | : no data available |
|----------------------------|---------------------|

**Bioaccumulation**

|                           |                     |
|---------------------------|---------------------|
| Bioaccumulation - Product | : no data available |
|---------------------------|---------------------|

**Ecotoxicity effects****Toxicity to fish**

|                            |                     |
|----------------------------|---------------------|
| Toxicity to fish - Product | : no data available |
|----------------------------|---------------------|

**Toxicity to daphnia and other aquatic invertebrates.**

|                         |                     |
|-------------------------|---------------------|
| Toxicity to daphnia and | : no data available |
|-------------------------|---------------------|

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other aquatic invertebrates.  
- Product

### Toxicity to algae

Toxicity to algae - : no data available  
Product

### Toxicity to bacteria

Toxicity to bacteria - : no data available  
Product

## 13. DISPOSAL CONSIDERATIONS

### Waste disposal methods

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

## 14. TRANSPORT INFORMATION

### REGULATION

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT /LTD. QTY. |
|-----------|----------------------|---------------|--------------------|---------------|-----------------------------|
|-----------|----------------------|---------------|--------------------|---------------|-----------------------------|

### U.S. DOT - ROAD

Not dangerous goods

### U.S. DOT - RAIL

Not dangerous goods

### U.S. DOT - INLAND WATERWAYS

Not dangerous goods

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### TRANSPORT CANADA - ROAD

Not dangerous goods

### TRANSPORT CANADA - RAIL

Not dangerous goods

### TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

### INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

### MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect 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

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### SARA Hazard Classification

### SARA 311/312 Classification

Fire Hazard

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Acute Health Hazard

### SARA 313 Component(s)

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### New Jersey RTK Label Information

|   |            |
|---|------------|
| LUBRICANT ADDITIVE                            |            |
| HEAVY PARAFFINIC DISTILLATE                   | 64742-54-7 |
| DISTILLATES (PETROLEUM), HYDROTREATED LIGHT   | 64742-47-8 |
| DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC | 64741-88-4 |
| RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED    | 64742-01-4 |

### Pennsylvania RTK Label Information

|   |            |
|---|------------|
| LUBRICANT ADDITIVE                            |            |
| HEAVY PARAFFINIC DISTILLATE                   | 64742-54-7 |
| DISTILLATES (PETROLEUM), HYDROTREATED LIGHT   | 64742-47-8 |
| DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC | 64741-88-4 |
| RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED    | 64742-01-4 |
| SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC   | 64742-94-5 |

### Notification status

|   |                      |
|---|----------------------|
| Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133) | y (positive listing) |
| China. Inventory of Existing Chemical Substances  | n (Negative listing) |
| Australia. Industrial Chemical (Notification and Assessment) Act  | y (positive listing) |
| US. Toxic Substances Control Act  | y (positive listing) |
| Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act                                       | y (positive listing) |
| Japan. Kashin-Hou Law List  | n (Negative listing) |
| Korea. Toxic Chemical Control Law (TCCL) List   | y (positive listing) |

|  |             |             |
|--|-------------|-------------|
|  | <b>HMIS</b> | <b>NFPA</b> |
|--|-------------|-------------|

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|                  |    |    |
|------------------|----|----|
| Health           | 2  | 2  |
| Flammability     | 2  | 2  |
| Physical hazards | 0  |    |
| Instability      |    | 0  |
| Specific Hazard  | -- | -- |

### 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).