

Valvoline Professional Series™ COMPLETE  
FUEL SYSTEM CLEANER  
VP052

**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 Professional Series™ COMPLETE FUEL SYSTEM CLEANER	
Product code	VP052	
Product Use Description	No data	

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**

Appearance: liquid, yellow

WARNING! COMBUSTIBLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES 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 severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

**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**

Individuals with preexisting heart disorders maybe more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material., 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., Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin, lung (for example, asthma-like conditions), Upper respiratory tract, immune system

### **Symptoms**

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects), stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Lung irritation, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), Lack of coordination, confusion, irregular heartbeat, narcosis (dazed or sluggish feeling), 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

### **Carcinogenicity**

This product (or a component) is a petroleum-derived material. Similar materials and certain compounds occurring naturally in petroleum oils have been shown to cause skin cancer in laboratory animals following repeated exposure without washing or removal. In a National Toxicology Program

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(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.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Hazardous Components</b>	<b>CAS-No.</b>	<b>Concentration</b>
Distillates (petroleum), sweetened middle	64741-86-2	>=30-<40%
KEROSENE	8008-20-6	>=20-<30%
POLYETHER AMINE		>=20-<30%
Poly[oxy(methyl-1,2-ethanediyl)]alpha-(3-propane)omega-hydroxy-C12-15 alkyl ethers		>=1.5-<5%
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC	64742-94-5	>=1.5-<5%
NAPHTHALENE	91-20-3	>=0.1-<0.5%

**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. 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**

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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:** 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.

**Treatment:** No information available.

## **5. FIRE-FIGHTING MEASURES**

### **Suitable extinguishing media**

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

### **Hazardous combustion products**

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

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## 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

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

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**Exposure Guidelines**

KEROSENE		8008-20-6	
ACGIH	time weighted average	200 mg/m3	Non-aerosol
NIOSH	Recommended exposure limit (REL):	100 mg/m3	

**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. Maintain eye wash station near work area.

**Skin and body protection**

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. Wear resistant gloves (consult your safety equipment supplier). 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>Form</b>	no data available
<b>Colour</b>	yellow
<b>Odour</b>	no data available
<b>Boiling point/boiling range</b>	275.0 °F / 135.0 °C
<b>Melting point/range</b>	no data available
<b>Sublimation point</b>	no data available
<b>pH</b>	no data available
<b>Flash point</b>	119.8 °F / 48.8 °C
<b>Ignition temperature</b>	no data available
<b>Evaporation rate</b>	no data available
<b>Lower explosion limit/Upper explosion limit</b>	1.0 %(V) / 6.6 %(V)
<b>Particle size</b>	no data available
<b>Vapour pressure</b>	9.000 mmHg @ 68.00 °F / 20.00 °C
<b>Relative vapour density</b>	no data available
<b>Density</b>	0.8526 g/cm <sup>3</sup> @ 60.01 °F / 15.56 °C
<b>Bulk density</b>	No data
<b>Water solubility</b>	no data available
<b>Solubility(ies)</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>log Pow</b>	no data available
<b>Autoignition temperature</b>	no data available
<b>Viscosity, dynamic</b>	no data available
<b>Viscosity, kinematic</b>	no data available
<b>Solids in Solution</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Burning number</b>	no data available
<b>Dust explosion constant</b>	no data available
<b>Minimum ignition energy</b>	no data available

## 10. STABILITY AND REACTIVITY

### Stability

Stable.

### Conditions to avoid

Heat, flames and sparks.

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**Incompatible products**

Strong oxidizing agents

**Hazardous decomposition products**

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

**Hazardous reactions**

Product will not undergo hazardous polymerization.

**Thermal decomposition**

No data

**11. TOXICOLOGICAL INFORMATION**

**Acute oral toxicity**

Distillates (petroleum), sweetened middle	: LD 50 Rat: > 5,000 mg/kg
KEROSENE	: LD 50 Rat: > 5,000 mg/kg
POLYETHER AMINE	: no data available
Poly[oxy(methyl-1,2-ethanediyl)]alpha-(3-propane)omega-hydroxy-C12-15 alkyl ethers	: no data available
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC	: LD 50 Rat: 3,000 mg/kg
NAPHTHALENE	: LD50 Oral Rat: 2,200 mg/kg

**Acute inhalation toxicity**

Distillates (petroleum), sweetened middle	: no data available
KEROSENE	: LC 50 Rat: > 5,000 mg/m <sup>3</sup> ; 4 h
POLYETHER AMINE	: no data available
Poly[oxy(methyl-1,2-ethanediyl)]alpha-(3-propane)omega-hydroxy-C12-15 alkyl ethers	: no data available
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC	: LC 50 Rat: > 3,800 mg/m <sup>3</sup> ; 4 h
NAPHTHALENE	: no data available

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**Acute dermal toxicity**

Distillates (petroleum), sweetened middle : no data available  
KEROSENE : LD 50 Rabbit: > 2 g/kg  
POLYETHER AMINE : no data available  
Poly[oxy(methyl-1,2-ethanediyl)]alpha-(3-propane)omega-hydroxy-C12-15 alkyl ethers : no data available  
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC : LD 50 Rabbit: > 3,000 mg/kg  
NAPHTHALENE : LD50 Dermal Rabbit: > 2.0 g/kg

**12. ECOLOGICAL INFORMATION**

**Biodegradability**

Distillates (petroleum), sweetened middle : no data available  
KEROSENE : no data available  
POLYETHER AMINE : no data available  
Poly[oxy(methyl-1,2-ethanediyl)]alpha-(3-propane)omega-hydroxy-C12-15 alkyl ethers : no data available  
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC : no data available  
NAPHTHALENE : no data available

**Bioaccumulation**

Distillates (petroleum), sweetened middle : no data available  
KEROSENE : no data available  
POLYETHER AMINE : no data available  
Poly[oxy(methyl-1,2-ethanediyl)]alpha-(3-propane)omega-hydroxy-C12-15 alkyl ethers : no data available  
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC : no data available

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NAPHTHALENE : Species: Rainbow trout,donaldson trout (Oncorhynchus mykiss)  
Exposure time: 16 d  
Dose: 0.023 mg/l  
Bioconcentration factor (BCF): 25  
Method: Flow through

**Ecotoxicity effects**

**Toxicity to fish**

Distillates (petroleum), sweetened middle : no data available

KEROSENE : no data available

POLYETHER AMINE : no data available

Poly[oxy(methyl-1,2-ethanediyl)]alpha-(3-propane)omega-hydroxy-C12-15 alkyl ethers : no data available

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC : no data available

NAPHTHALENE : 96 h static test LC 50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 0.91 - 2.82 mg/l

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

Distillates (petroleum), sweetened middle : no data available

KEROSENE : no data available

POLYETHER AMINE : no data available

Poly[oxy(methyl-1,2-ethanediyl)]alpha-(3-propane)omega-hydroxy-C12-15 alkyl ethers : no data available

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC : no data available

NAPHTHALENE : 48 h static test EC 50 Water flea (Daphnia magna): 1.09 - 3.40 mg/l

**Toxicity to algae**

Distillates (petroleum), sweetened middle : no data available

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KEROSENE : no data available

POLYETHER AMINE : no data available

Poly[oxy(methyl-1,2-ethanediyl)]alpha-(3-propane)omega-hydroxy-C12-15 alkyl ethers : no data available

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC : no data available

NAPHTHALENE : no data available

**Toxicity to bacteria**

Distillates (petroleum), sweetened middle : no data available

KEROSENE : no data available

POLYETHER AMINE : no data available

Poly[oxy(methyl-1,2-ethanediyl)]alpha-(3-propane)omega-hydroxy-C12-15 alkyl ethers : no data available

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC : no data available

NAPHTHALENE : no data available

**Biochemical Oxygen Demand (BOD)**

Distillates (petroleum), sweetened middle : no data available

KEROSENE : no data available

POLYETHER AMINE : no data available

Poly[oxy(methyl-1,2-ethanediyl)]alpha-(3-propane)omega-hydroxy-C12-15 alkyl ethers : no data available

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC : no data available

NAPHTHALENE : no data available

**Chemical Oxygen Demand (COD)**

Distillates (petroleum), sweetened middle : no data available

KEROSENE : no data available

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POLYETHER AMINE : no data available

Poly[oxy(methyl-1,2-ethanediyl)]alpha-(3-propane)omega-hydroxy-C12-15 alkyl ethers : no data available

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC : no data available

NAPHTHALENE : no data available

**Additional ecological information**

Distillates (petroleum), sweetened middle : no data available

KEROSENE : no data available

POLYETHER AMINE : no data available

Poly[oxy(methyl-1,2-ethanediyl)]alpha-(3-propane)omega-hydroxy-C12-15 alkyl ethers : no data available

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC : no data available

NAPHTHALENE : no data available

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods**

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**

**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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**U.S. DOT - ROAD**

Not dangerous goods

**U.S. DOT - RAIL**

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Not dangerous goods

**U.S. DOT - INLAND WATERWAYS**

Not dangerous goods

**TRANSPORT CANADA - ROAD**

Not dangerous goods

**TRANSPORT CANADA - RAIL**

Not dangerous goods

**TRANSPORT CANADA - INLAND WATERWAYS**

Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

UN	1993	FLAMMABLE LIQUID, N.O.S. (KEROSENE)	3	III
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

UN	1993	Flammable liquid, n.o.s. (KEROSENE)	3	III
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

UN	1993	Flammable liquid, n.o.s. (KEROSENE)	3	III
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**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

UN	1993	LIQUIDO INFLAMABLE, N.E.P. (KEROSENE)	3	III
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\*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**

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**California Prop. 65**

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

Fire Hazard  
Acute Health Hazard  
Chronic Health Hazard

**SARA 313 Component(s)**

NAPHTHALENE 0.14 %

**New Jersey RTK Label Information**

Distillates (petroleum), sweetened middle 64741-86-2  
KEROSENE 8008-20-6  
POLYETHER AMINE  
GASOLINE ADDITIVE  
Phenol, (dimethylamino)methyl-,polyisobutylene derivs.

**Pennsylvania RTK Label Information**

Distillates (petroleum), sweetened middle 64741-86-2  
KEROSENE 8008-20-6  
POLYETHER AMINE  
GASOLINE ADDITIVE  
Phenol, (dimethylamino)methyl-,polyisobutylene derivs.  
Poly[oxy(methyl-1,2-ethanediyl)]alpha-(3-propane)omega-hydroxy-C12-15  
alkyl ethers  
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC 64742-94-5

**Notification status**

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

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New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand n (Negative listing)

**Reportable quantity - Product**

US. EPA CERCLA Hazardous Substances (40 CFR 302) 70821 lbs

**Reportable quantity-Components**

NAPHTHALENE 91-20-3 100 lbs

	<b>HMIS</b>	<b>NFPA</b>
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).