

Valvoline Professional Series
COMPLETE FUEL SYSTEM
CLEANER VP052

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION 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, Clear yellow

CAUTION! Combustible Liquid, Moderate skin irritant, Moderate eye irritant.

Potential Health Effects

Routes of Exposure

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.

Ingestion

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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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), Individuals with preexisting heart disorders maybe more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways), stomach or intestinal upset (nausea, vomiting, diarrhea), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, lung irritation, loss of coordination, confusion, irregular heartbeat, narcosis (dazed or sluggish feeling), convulsions, coma

Target Organs

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 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). 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.

Reproductive Hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

Other Information

No data

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Components	CAS-No.	Concentration
KEROSENE	8008-20-6	>=50-<60%
ALIPHATIC HYDROCARBON	NJTS# 254504001- 5164	>=30-<40%
MINERAL SPIRITS ODORLESS (BASE DATA)	8052-41-3	>=10-<15%
MINERAL SPIRITS REGULAR (BASE DATA)	8052-41-3	>=10-<15%

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

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. This material is an aspiration hazard. Potential danger from aspiration must be

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weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

foam, carbon dioxide (CO₂), dry chemical carbon dioxide (CO₂), dry chemical

Hazardous Combustion Products

May form: carbon dioxide and carbon monoxide, various hydrocarbons

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. 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 liquid with water used for cooling purposes.

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.

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 and collect spillage 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

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

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

KEROSENE		8008-20-6	
ACGIH	time weighted average	200 mg/m3	Non-aerosol
NIOSH	Recommended exposure limit (REL):	100 mg/m3	
MINERAL SPIRITS ODORLESS (BASE DATA)		8052-41-3	
ACGIH	time weighted average	100 ppm	
NIOSH	Recommended exposure limit (REL):	350 mg/m3	
NIOSH	Ceiling Limit Value and Time Period (if specified):	1,800 mg/m3	
OSHA Z1	Permissible exposure limit	500 ppm	
OSHA Z1	Permissible exposure limit	2,900 mg/m3	
OSHA Z1A	time weighted average	100 ppm	
OSHA Z1A	time weighted average	525 mg/m3	
US CA OEL	Time Weighted Average (TWA)	100 ppm	
US CA OEL	Permissible Exposure Limit (PEL):		
US CA OEL	Time Weighted Average (TWA)	525 mg/m3	
US CA OEL	Permissible Exposure Limit (PEL):		
MINERAL SPIRITS REGULAR (BASE		8052-41-3	

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ACGIH	time weighted average	100 ppm
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NIOSH	Ceiling Limit Value and Time Period (if specified):	1,800 mg/m3
OSHA Z1	Permissible exposure limit	500 ppm
OSHA Z1	Permissible exposure limit	2,900 mg/m3
OSHA Z1A	time weighted average	100 ppm
OSHA Z1A	time weighted average	525 mg/m3
US CA OEL	Time Weighted Average (TWA)	100 ppm
US CA OEL	Permissible Exposure Limit (PEL):	
US CA OEL	Time Weighted Average (TWA)	525 mg/m3
	Permissible Exposure Limit (PEL):	

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 (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

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

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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

Physical state	liquid
Form	No data
Colour	Clear yellow
Odour	No data
Boiling point/range	275.0 °F / 135.0 °C
pH	No data
Flash point	119.8 °F / 48.8 °C
Evaporation rate	No data
Explosion limits	1.0 %(V) 6.6 %(V)
Vapour pressure	9.000 mmHg @ 68.00 °F / 20.00 °C
Vapour density	No data
Density	0.8526 g/cm ³ @ 60.01 °F / 15.56 °C
	No data
Solubility	No data
Partition coefficient (n-octanol/water)	No data
Autoignition temperature	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, various hydrocarbons

Hazardous Reactions

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Product will not undergo hazardous polymerization.

Thermal Decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity

KEROSENE	LD 50 Rat: 5,000 mg/kg
ALIPHATIC HYDROCARBON	LD 50 Rat: 8,000 mg/kg
MINERAL SPIRITS ODORLESS (BASE DATA)	LD 50 Rat: 5 g/kg
MINERAL SPIRITS REGULAR (BASE DATA)	LD 50 Rat: 5 g/kg

Acute Inhalation Toxicity

KEROSENE	LC 50 Rat: 5,000 mg/m ³ , 4 h
ALIPHATIC HYDROCARBON	LD 50 Rat: 2500 ppm, 4 h

Acute Dermal Toxicity

KEROSENE	LD 50 Rabbit: 2 g/kg
ALIPHATIC HYDROCARBON	LD 50 Rabbit: 4,000 mg/kg
MINERAL SPIRITS ODORLESS (BASE DATA)	LD 50 Rabbit: 3 g/kg
MINERAL SPIRITS REGULAR (BASE DATA)	LD 50 Rabbit: 3 g/kg

12. ECOLOGICAL INFORMATION

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SARA 313 Component(s)

OSHA Hazards

Combustible Liquid
Moderate skin irritant
Moderate eye irritant

	Health	Flammability	Reactivity	Other
HMIS	1	2	0	
NFPA	1	2	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).