29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

Trade name : Valvoline Professional Series™ COMPLETE OIL SYSTEM CLEANER
ENGINE FLUSH

**Recommended use of the chemical and restrictions on use**

| **Details of the supplier of the safety data sheet** | **Emergency telephone number** |
|---|---|
| Ashland<br>P.O. Box 2219<br>Columbus, OH 43216<br>United States of America<br><br>EHS Customer Requests@ashland.com | 1-800-ASHLAND (1-800-274-5263)<br><br>**Regulatory Information Number**<br>1-800-325-3751<br><br>**Product Information**<br>614-790-3333 |

## SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

Aspiration hazard : Category 1

**GHS Label element**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : May be fatal if swallowed and enters airways.

Precautionary Statements : If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
**Response:**
IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
Do NOT induce vomiting.
**Storage:**
Store locked up.

**Disposal:**
Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**
None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

**Hazardous components**

| Chemical Name | CAS-No. | Classification | Concentration (%) |
|---|---|---|---|
| DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC | 64742-53-6 | Asp. Tox. 1; H304 | 99.99 |

## SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.

If inhaled : Move to fresh air.
If breathed in, move person into fresh air.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.

If swallowed : Obtain medical attention.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

| | | |
|---|---|---|
| Most important symptoms and effects, both acute and delayed | : | 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.<br>Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:<br>stomach or intestinal upset (nausea, vomiting, diarrhea)<br>irritation (nose, throat, airways)<br>May be fatal if swallowed and enters airways. |
| Notes to physician | : | No hazards which require special first aid measures. |

## SECTION 5. FIREFIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Water spray<br>Foam<br>Carbon dioxide (CO2)<br>Dry chemical |
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during firefighting | : | 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.<br>Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : | carbon dioxide and carbon monoxide<br>Aldehydes |
| Specific extinguishing methods | : | Product is compatible with standard fire-fighting agents. |
| Further information | : | Standard procedure for chemical fires. |

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

## SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapours/dust.
Do not smoke.
Container hazardous when empty.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|---|---|---|---|
| DISTILLATES (PETROLEUM), | 64742-53-6 | PEL | 500 ppm | OSHA_TRA |

| | | | | |
|---|---|---|---|---|
| HYDROTREATED LIGHT NAPHTHENIC | | | 2,000 mg/m3 | NS |
| | | REL | 5 mg/m3 Mist. | NIOSH/GUIDE |
| | | STEL | 10 mg/m3 Mist. | NIOSH/GUIDE |
| | | PEL | 5 mg/m3 Mist. | OSHA_TRANS |

**Engineering measures** : 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.

**Personal protective equipment**

Hand protection
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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 as appropriate:
impervious clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.
When using do not eat or drink.
When using do not smoke.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Colour : amber

Odour : mild

Odour Threshold : No data available

pH : No data available

No data available

Pour point : -71 °F / -57 °C

| | | |
|---|---|---|
| | | No data available |
| Boiling point/boiling range | : | not determined |
| Flash point | : | 284 °F / 140 °C<br>Method: Pensky Martens closed cup |
| Evaporation rate | : | < 1<br>butyl acetate=1 |
| Flammability (solid, gas) | : | No data available |
| Upper explosion limit | : | No data available |
| Lower explosion limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Relative density | : | 0.88 (15.6 °C) |
| Density | : | 0.88 g/cm3 (15.6 °C) |
| Bulk density | : | 880 kg/m3 |
| Solubility(ies) | | |
| Water solubility | : | insoluble |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Thermal decomposition | : | No data available |
| Viscosity | | |
| Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | 8 mm2/s (40 °C) |
| | | 3 mm2/s (100 °C) |
| Oxidizing properties | : | No data available |

## SECTION 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| Reactivity | : | No decomposition if stored and applied as directed. |
| Chemical stability | : | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | : | Product will not undergo hazardous polymerization. |
| Incompatible materials | : | Oxidizing agents |
| Hazardous decomposition products | | No hazardous decomposition products are known. |

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

**Acute toxicity**
Not classified based on available information.
**Components:**
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC**:**
Acute oral toxicity : LD 50 (Rat): > 5 g/kg

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

**Skin corrosion/irritation**
Not classified based on available information.
**Product:**
Result: Repeated exposure may cause skin dryness or cracking.

**Components:**
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC**:**
Result: Not irritating to skin

**Serious eye damage/eye irritation**
Not classified based on available information.
**Product:**
Remarks: Unlikely to cause eye irritation or injury.

**Components:**
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC**:**
Result: Mildly irritating to eyes

**Respiratory or skin sensitisation**
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**
Not classified based on available information.
**Carcinogenicity**
Not classified based on available information.
**Reproductive toxicity**
Not classified based on available information.
**STOT - single exposure**
Not classified based on available information.
**STOT - repeated exposure**
Not classified based on available information.
**Aspiration toxicity**
May be fatal if swallowed and enters airways.
**Product:**
May be fatal if swallowed and enters airways.

**Components:**
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC**:**
May be fatal if swallowed and enters airways.

**Further information**
**Product:**
Remarks: Solvents may degrease the skin.

**Carcinogenicity:**

| | | |
|---|---|---|
| **IARC** | Group 1: Carcinogenic to humans | |
| | DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC | 64742-53-6 |
| **OSHA** | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. | |
| **NTP** | Known to be human carcinogen | |
| | DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC | 64742-53-6 |

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
No data available
**Persistence and degradability**
No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

General advice : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

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

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

**International transport regulations**

**REGULATION**

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

**U.S. DOT - ROAD**

| Not dangerous goods |
|---|

**CFR_RAIL_C**

| Not dangerous goods |
|---|

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

| Not dangerous goods |
|---|

**TDG_ROAD_C**

| |
|---|
| Not dangerous goods |

**TDG_RAIL_C**

| |
|---|
| Not dangerous goods |

**TDG_INWT_C**

| |
|---|
| 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 |

**MX_DG**

| |
|---|
| Not dangerous goods |

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

| | | |
|---|---|---|
| Marine pollutant | | no |

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.

## SECTION 15. REGULATORY INFORMATION

**SARA 311/312 Hazards** : Acute Health Hazard

**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.
**Component(s)SARA 313**

**Pennsylvania Right To Know**

DISTILLATES (PETROLEUM), 64742-53-6 90.00 -

| | | |
|---|---|---|
| HYDROTREATED LIGHT NAPHTHENIC | | 100.00 % |
| LUBRICANT ADDITIVE | Not Assigned | 5.00 - 10.00 % |

**New Jersey Right To Know**

| | | |
|---|---|---|
| DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC | 64742-53-6 | 90.00 - 100.00 % |
| LUBRICANT ADDITIVE | Not Assigned | 5.00 - 10.00 % |

**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.

**The components of this product are reported in the following inventories:**

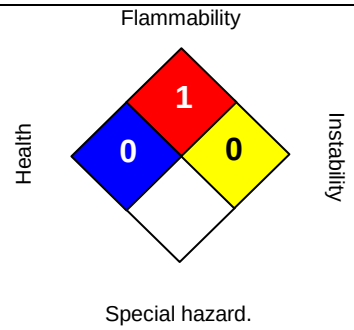
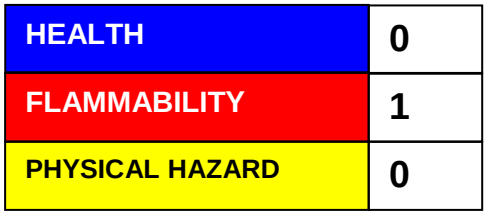
| | | |
|---|---|---|
| TSCA | : | On TSCA Inventory |
| PICCS | : | On the inventory, or in compliance with the inventory |
| IECSC | : | On the inventory, or in compliance with the inventory |
| KECL | : | On the inventory, or in compliance with the inventory |
| ENCS | : | On the inventory, or in compliance with the inventory |
| AUSTR | : | On the inventory, or in compliance with the inventory |
| DSL | : | All components of this product are on the Canadian DSL. |
| NZIOC | : | On the inventory, or in compliance with the inventory |

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

## SECTION 16. OTHER INFORMATION

**Further information**
Revision Date: 05/22/2015

| NFPA: | HMIS III: |
|---|---|
|  |  |





0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

**NFPA Flammable and Combustible Liquids Classification**
Combustible Liquid Class IIIB

**Full text of H-Statements referred to under sections 2 and 3.**
H304 May be fatal if swallowed and enters airways.

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :
ACGIH : American Conference of Industrial Hygienists
BEI : Biological Exposure Index
CAS : Chemical Abstracts Service (Division of the American Chemical Society).
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
FG : Food grade
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
H-statement : Hazard Statement
IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the “International Air Transport Association” (IATA).

ICAO : International Civil Aviation Organization
ICAO-TI (ICAO) : Technical Instructions by the “International Civil Aviation Organization”
IMDG : International Maritime Code for Dangerous Goods
ISO : International Organization for Standardization
logPow : octanol-water partition coefficient
LCxx : Lethal Concentration, for xx percent of test population
LDxx : Lethal Dose, for xx percent of test population.
ICxx : Inhibitory Concentration for xx of a substance
Ecxx : Effective Concentration of xx
N.O.S.: Not Otherwise Specified
OECD : Organization for Economic Co-operation and Development
OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic
PPE : Personal Protective Equipment
STEL : Short-term exposure limit
STOT : Specific Target Organ Toxicity
TLV : Threshold Limit Value
TWA : Time-weighted average
vPvB : Very Persistent and Very Bioaccumulative
WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
DOT : Department of Transportation
FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act
HMIRC : Hazardous Materials Information Review Commission
HMIS : Hazardous Materials Identification System
NFPA : National Fire Protection Association
NIOSH : National Institute for Occupational Safety and Health
OSHA : Occupational Safety and Health Administration
PMRA : Health Canada Pest Management Regulatory Agency
RTK : Right to Know
WHMIS : Workplace Hazardous Materials Information System