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GHS classification in accordance with the Hazardous Products Regulations

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Valvoline™ ULTRA LOW VISCOSITY

Transmission Fluid

™ Trademark, Valvoline or its subsidiaries, registered in

various countries

Details of the supplier of the safety data sheet

Valvoline Canada Corp
905 Winston Churchill Blvd
Mississauga ON L5J 4P2
Canada
1-800-TEAMVAL (1-800-832-6825)

Product Information
1-800-TEAMVAL (1-800-832-6825)

SDS@valvoline.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Aspiration hazard : Category 1

GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways.

Precautionary statements : Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

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P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Tiuzuruous components			
Chemical name	CAS-No.	Classification	Concentration (%)
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	Asp. Tox. 1; H304	>=70.00 - < 90.00
Distillates (Petroleum),	64742-54-7	Asp. Tox. 1; H304	>=10.00 - < 20.00
Hydrotreated Heavy Paraffinic			
HYDROTREATED LIGHT	64742-55-8	Asp. Tox. 1; H304	>=1.00 - < 5.00
PARAFFINIC DISTILLATE			
DODECYL HYDROXYPROPYL SULFIDE	67124-09-8	Skin Sens. 1; H317	>=0.10 - < 1.00

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.

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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

: No symptoms known or expected.

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.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons

Specific extinguishing

methods

Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for firefighters

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

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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 : Pre

: 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.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components with workplace control parameters					
Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis	
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	TWA	5 mg/m3 Mist	CA AB OEL	
		STEL	10 mg/m3 Mist	CA AB OEL	

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		TWAEV	5 mg/m3 Mist	CA QC OEL
		STEV	10 mg/m3 Mist	CA QC OEL
		TWA	1 mg/m3 Mist	CA BC OEL
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	TWA	5 mg/m3 Mist	CA AB OEL
		STEL	10 mg/m3 Mist	CA AB OEL
		TWAEV	5 mg/m3 Mist	CA QC OEL
		STEV	10 mg/m3 Mist	CA QC OEL
		TWA	1 mg/m3 Mist	CA BC OEL
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	TWA	5 mg/m3 Mist	CA AB OEL
		STEL	10 mg/m3 Mist	CA AB OEL
		TWAEV	5 mg/m3 Mist	CA QC OEL
		STEV	10 mg/m3 Mist	CA QC OEL
		TWA	1 mg/m3 Mist	CA BC OEL

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).

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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

Appearance : liquid

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : 201 - 249 °C

Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 0.865 g/cm3

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

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Partition coefficient: n-

octanol/water

: No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 19.4 mm2/s (40 °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.

Conditions to avoid : excessive heat

Incompatible materials : alkalis

Strong acids

Strong 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:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.58 mg/l

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Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: Not classified as acutely toxic by inhalation

under GHS.

Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Remarks: No mortality observed at this dose.

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

Acute oral toxicity : LD50 (Rat): > 15 g/kg

Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

DODECYL HYDROXYPROPYL SULFIDE:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

GLP: yes

Acute dermal toxicity : LD50 (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.

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Species : Rabbit

Result : No skin irritation

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

Assessment : Slight, transient irritation Result : Slight, transient irritation

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Assessment : Slight, transient irritation Result : Slight, transient irritation

DODECYL HYDROXYPROPYL SULFIDE:

Species : Rabbit

Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks : Unlikely to cause eye irritation or injury.

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Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Species : Rabbit

Result : No eye irritation

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

Result : No eye irritation
Assessment : No eye irritation

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result : Slight, transient irritation
Assessment : Slight, transient irritation

DODECYL HYDROXYPROPYL SULFIDE:

Species : Rabbit

Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Test Type : Buehler Test Species : Guinea pig

Assessment : Does not cause skin sensitisation.

DODECYL HYDROXYPROPYL SULFIDE:

Test Type : Local lymph node assay

Species : Guinea pig

Assessment : May cause sensitisation by skin contact.

Method : OECD Test Guideline 429

Germ cell mutagenicity

Not classified based on available information.

Components:

DODECYL HYDROXYPROPYL SULFIDE:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Carcinogenicity - : Classified based on DMSO extract content < 3% (Regulation

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(EC) 1272/2008, Annex VI, Part 3, Note L) Assessment

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

: Classified based on DMSO extract content < 3% (Regulation Carcinogenicity -

Assessment (EC) 1272/2008, Annex VI, Part 3, Note L)

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.

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

May be fatal if swallowed and enters airways.

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks : Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Short-term (acute) aquatic

hazard

: Acute aquatic toxicity Category 3; Harmful to aquatic life.

Long-term (chronic) aquatic

: Chronic aquatic toxicity Category 3; Harmful to aquatic life hazard with long lasting effects.

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

: LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Toxicity to fish

> Exposure time: 96 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 203

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Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 202

Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): >=

100 mg/l

End point: Growth inhibition

Exposure time: 72 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

: NOELR (Oncorhynchus mykiss (rainbow trout)): Calculated >=

1,000 mg/l

Exposure time: 14 d

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEL (Daphnia (water flea)): 10 mg/l

Exposure time: 21 d Test substance: WAF

Method: OECD Test Guideline 211

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

Toxicity to fish : LL50 (Fish): > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Aquatic invertebrates): > 10,000 mg/l

Exposure time: 48 h

Toxicity to algae : EL50 (Algae, algal mat (Algae)): > 100 mg/l

Exposure time: 72 h

Toxicity to fish (Chronic

toxicity)

: NOEC (Fish): 10 mg/l

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Aquatic invertebrates): 10 mg/l

Ecotoxicology Assessment

Short-term (acute) aquatic

hazard

: Not classified based on available information.

Long-term (chronic) aquatic

hazard

: Not classified based on available information.

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DODECYL HYDROXYPROPYL SULFIDE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.75 mg/l

> Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): 0.58 mg/l

Exposure time: 48 h Test Type: static test Test substance: WAF

Toxicity to algae : EL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

> Exposure time: 96 h Test Type: static test Test substance: WAF

M-Factor (Short-term (acute)

aquatic hazard)

: NOEL (Daphnia magna (Water flea)): 0.32 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d Test Type: semi-static test

Method: OECD Test Guideline 211

GLP: yes

M-Factor (Long-term (chronic) aquatic hazard)

: 1

Persistence and degradability

Components:

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Biodegradability : Result: Not readily biodegradable.

> Biodegradation: 2 - 4 % Exposure time: 28 d

Method: OECD Test Guideline 301B

DODECYL HYDROXYPROPYL SULFIDE:

Biodegradability : Result: Not readily biodegradable.

> Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F

No data available

Bioaccumulative potential

Components:

DODECYL HYDROXYPROPYL SULFIDE:

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Partition coefficient: n-

octanol/water

: log Pow: 4.7 - 6.5

No data available **Mobility in soil Components:** No data available

Other adverse effects

No data available

Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life

with long lasting effects.

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : The product should not be allowed to enter drains, water

courses or the soil.

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 Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

TDG

Not regulated as a dangerous good

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

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

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On TSCA Inventory

Inventories

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

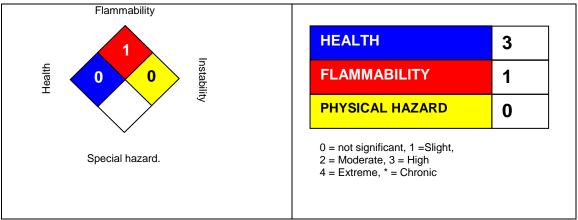
SECTION 16. OTHER INFORMATION

Further information

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NFPA:	HMIS III:
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NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

Full text of H-Statements

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

Sources of key data used to compile the Safety Data Sheet Valvoline 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 Valvoline's Environmental Health and Safety Department (1-800-VALVOLINE).

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.

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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