

SAFETY DATA SHEET

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 679741

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Valvoline Professional Series™ Complete Fuel System Treatment

™ Trademark, Valvoline or its subsidiaries, registered in various countries

Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Industrial chemical

<p>Details of the supplier of the safety data sheet Valvoline LLC 100 Valvoline Way Lexington, KY 40509 United States of America (USA) 1-800-TEAMVAL (1-800-832-6825)</p>	<p>Emergency telephone number 1-800-VALVOLINE (1-800-825-8654)</p> <p>Regulatory Information Number 1-800-TEAMVAL (1-800-832-6825)</p> <p>Product Information 1-800-TEAMVAL (1-800-832-6825)</p>
---	--

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Skin irritation : Category 2

Eye irritation : Category 2A

Carcinogenicity (Inhalation) : Category 2

Aspiration hazard : Category 1

GHS label elements

Hazard pictograms :   

Signal Word : Danger

**SAFETY DATA SHEET**

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
™ Trademark, Valvoline or its subsidiaries, registered in various
countries
679741

Hazard Statements : Flammable liquid and vapor.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
Suspected of causing cancer if inhaled.

Precautionary Statements : **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF SWALLOWED: Immediately call a POISON CENTER/doctor.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/ attention.
Do NOT induce vomiting.
If skin irritation occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:
Store in a well-ventilated place. Keep cool.
Store locked up.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Static-accumulating flammable liquid.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Defatter
Chemical nature : Static Accumulator

SAFETY DATA SHEET

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Valvoline Professional Series™ Complete Fuel System Treatment
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 679741

Version: 1.4

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics		Flam. Liq. 4; H227 Asp. Tox. 1; H304	42.2786
POLY[OXY(1,2-PROPANEDIYL)], ALPHA, -(3-AMINOPROPYL)-, OMEGA.-HYDROXY-, C12-C15 ALKYL ETHERS		Skin Irrit. 2; H315 Eye Dam. 1; H318	30.5928
Distillates (petroleum), hydrotreated middle	64742-46-7	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Asp. Tox. 1; H304	16.9114
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY	64742-48-9	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 3; H335 Asp. Tox. 1; H304	15.4147
Poly[oxy(1,2-propanediyl)].alpha.-propyl-.omega.-hydroxy-C12-15 alkyl ethers		Skin Irrit. 2; H315 Eye Dam. 1; H318	2.5367
HYDROCARBONS, C10, AROMATICS, >1% NAPHTHALENE		Flam. Liq. 4; H227 STOT SE 3; H336 Asp. Tox. 1; H304	2.1139
NAPHTHALENE	91-20-3	Acute Tox. 4; H302 Carc. 2; H351	0.1691



SAFETY DATA SHEET

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
™ Trademark, Valvoline or its subsidiaries, registered in various
countries
679741

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
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 : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
- 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 : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
Headache
Dizziness
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
Suspected of causing cancer if inhaled.
- 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
Alcohol-resistant foam



SAFETY DATA SHEET

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 679741

- Unsuitable extinguishing media : Carbon dioxide (CO2)
Dry chemical
- Specific hazards during firefighting : High volume water jet
- Hazardous combustion products : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Do not allow run-off from fire fighting to enter drains or water courses.
- Specific extinguishing methods : carbon dioxide and carbon monoxide
carbon
- Further information : Product is compatible with standard fire-fighting agents.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use a water spray to cool fully closed containers.
- 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 : Evacuate personnel to safe areas.
Remove all sources of ignition.
Use personal protective equipment.
Ensure adequate ventilation.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
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 : 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.

SAFETY DATA SHEET

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 679741

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Open drum carefully as content may be under pressure.
 Avoid formation of aerosol.
 Provide sufficient air exchange and/or exhaust in work rooms.
 Do not breathe vapours/dust.
 Do not smoke.
 Container hazardous when empty.
 Take precautionary measures against static discharges.
 Avoid exposure - obtain special instructions before use.
 Avoid contact with skin and eyes.
 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.
 No smoking.

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), hydrotreated middle	64742-46-7	REL	5 mg/m3 Mist.	NIOSH/GUID E
		STEL	10 mg/m3 Mist.	NIOSH/GUID E
				NIOSH/GUID E
		PEL	5 mg/m3 Mist.	OSHA_TRANS
				OSHA_TRANS
		TWA	5 mg/m3 Mist.	ACGIH
		STEL	10 mg/m3 Mist.	ACGIH
				ACGIH
		TWA	0.2 mg/m3 Inhalable fraction.	ACGIHLIS_P

SAFETY DATA SHEET

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Valvoline Professional Series™ Complete Fuel System Treatment
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 679741

Version: 1.4

				ACGIHLIS_P
				ACGIHLIS_P
				ACGIHLIS_P
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY	64742-48-9	TWA	100 ppm	SUPLR EXP
HYDROCARBONS, C10, AROMATICS, >1% NAPHTHALENE		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
NAPHTHALENE	91-20-3	TWA	10 ppm	ACGIH
		TWA	10 ppm 50 mg/m3	NIOSH REL
		ST	15 ppm 75 mg/m3	NIOSH REL
		TWA	10 ppm 50 mg/m3	OSHA Z-1
		TWA	10 ppm 50 mg/m3	OSHA P0
		STEL	15 ppm 75 mg/m3	OSHA P0
		PEL	0.1 ppm 0.5 mg/m3	CAL PEL

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

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hand protection

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

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 as appropriate:
 Impervious clothing
 Safety shoes
 Flame-resistant clothing
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.
 Discard gloves that show tears, pinholes, or signs of wear.
 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

**SAFETY DATA SHEET**

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
™ Trademark, Valvoline or its subsidiaries, registered in various
countries
679741

Physical state : 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 : 365 °F / 185 °C
Calculated Phase Transition Liquid/Gas
Flash point : 108.0 °F / 42.2 °C
Calculated Flash Point
Evaporation rate : No data available

Flammability (solid, gas) :
No data available

Flammability (liquids) : Static-accumulating flammable liquid.

Flammability (liquids) :
Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 1.131 hPa
Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

Density : 0.870 g/cm³ (20 °C)

Solubility(ies)
Water solubility : No data available

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 : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

**SAFETY DATA SHEET**

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
™ Trademark, Valvoline or its subsidiaries, registered in various
countries
679741

Acute dermal toxicity : LD50 (Rabbit): > 2.0 g/kg

LD50 (Rat, male and female): > 2,500 mg/kg
Assessment: Not classified as acutely toxic by dermal
absorption under GHS.

Acute toxicity (other routes of administration) : LD50 (Mouse, female): 710 mg/kg
Application Route: Gavage

LD50 (Mouse): 150 mg/kg
Application Route: Intraperitoneal

LD50 (Mouse, male): 533 mg/kg
Application Route: Gavage

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Result: Repeated exposure may cause skin dryness or cracking.

Components:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Result: No skin irritation

POLY[OXY(1,2-PROPANEDIYL)], ALPHA, -(3-AMINOPROPYL)-, OMEGA.-HYDROXY-, C12-C15
ALKYL ETHERS:

Result: Irritating to skin.

Distillates (petroleum), hydrotreated middle:

Result: Irritating to skin.

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY:

Result: Irritating to skin.

Poly[oxy(1,2-propanediyl)].alpha.-propyl.-omega.-hydroxy-C12-15 alkyl ethers:

Result: Irritating to skin.

HYDROCARBONS, C10, AROMATICS, >1% NAPHTHALENE:

Result: Slight, transient irritation

NAPHTHALENE:

Result: Slight, transient irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result: Irritating to eyes.

**SAFETY DATA SHEET**

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
™ Trademark, Valvoline or its subsidiaries, registered in various
countries
679741

Remarks: Expected based on components.

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:
Result: Slight, transient irritation

POLY[OXY(1,2-PROPANEDIYL)], ALPHA, -(3-AMINOPROPYL)-, OMEGA.-HYDROXY-, C12-C15
ALKYL ETHERS:

Result: Risk of serious damage to eyes.

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY:

Result: Irritating to eyes.

Poly[oxy(1,2-propanediyl)].alpha.-propyl-.omega.-hydroxy-C12-15 alkyl ethers:

Result: Risk of serious damage to eyes.

HYDROCARBONS, C10, AROMATICS, >1% NAPHTHALENE:

Result: Slight, transient irritation

NAPHTHALENE:

Result: Slight, transient irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

POLY[OXY(1,2-PROPANEDIYL)], ALPHA, -(3-AMINOPROPYL)-, OMEGA.-HYDROXY-, C12-C15
ALKYL ETHERS:

Assessment: Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer if inhaled.

Components:

NAPHTHALENE:

Carcinogenicity - : Limited evidence of carcinogenicity in inhalation studies with
Assessment animals.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure



SAFETY DATA SHEET

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 679741

Not classified based on available information.

Components:

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY:

Assessment: May cause respiratory irritation.

HYDROCARBONS, C10, AROMATICS, >1% NAPHTHALENE:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

May be fatal if swallowed and enters airways.

Distillates (petroleum), hydrotreated middle:

May be fatal if swallowed and enters airways.

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY:

May be fatal if swallowed and enters airways.

HYDROCARBONS, C10, AROMATICS, >1% NAPHTHALENE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Solvents may degrease the skin.

Carcinogenicity:

IARC

Group 2B: Possibly carcinogenic to humans

NAPHTHALENE

91-20-3

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

Reasonably anticipated to be a human carcinogen

NAPHTHALENE

91-20-3

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Acute aquatic toxicity Category 1; Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Chronic aquatic toxicity Category 1; Very toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 679741

Components:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l
 aquatic invertebrates Exposure time: 48 h

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1,000
 mg/l
 Exposure time: 72 h

POLY[OXY(1,2-PROPANEDIYL)], ALPHA, -(3-AMINOPROPYL)-, OMEGA.-HYDROXY-, C12-C15
 ALKYL ETHERS:

Ecotoxicology Assessment

Short-term (acute) aquatic : Very toxic to aquatic life.
 hazard

Long-term (chronic) aquatic : Very toxic to aquatic life with long lasting effects.
 hazard

Distillates (petroleum), hydrotreated middle:

Ecotoxicology Assessment

Long-term (chronic) aquatic : Toxic to aquatic life with long lasting effects.
 hazard

HYDROCARBONS, C10, AROMATICS, >1% NAPHTHALENE:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l
 Exposure time: 96 h

Test Type: semi-static test

Test substance: WAF

Method: OECD Test Guideline 203

Remarks: Information given is based on data obtained from
 similar substances.

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): 10 mg/l
 aquatic invertebrates Exposure time: 48 h
 Test Type: static test
 Test substance: WAF
 Method: OECD Test Guideline 202
 Remarks: Information given is based on data obtained from
 similar substances.

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 3
 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Test substance: WAF
 Method: OECD Test Guideline 201
 Remarks: Information given is based on data obtained from
 similar substances.

SAFETY DATA SHEET

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 679741

- Ecotoxicology Assessment
- Short-term (acute) aquatic hazard : Toxic to aquatic life.
- Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.
- NAPHTHALENE:**
- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.91 - 2.82 mg/l
 Exposure time: 96 h
 Test Type: static test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.09 - 3.4 mg/l
 Exposure time: 48 h
 Test Type: static test

Persistence and degradability

Components:

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY:
 Biodegradability : Remarks: Not readily biodegradable.

HYDROCARBONS, C10, AROMATICS, >1% NAPHTHALENE:
 Biodegradability : Result: Inherently biodegradable

NAPHTHALENE:
 Biodegradability : Result: Not readily biodegradable.

No data available

Bioaccumulative potential

Components:

NAPHTHALENE:
 Partition coefficient: n-octanol/water : log Pow: 3.30

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., Very toxic 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



SAFETY DATA SHEET

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 679741

Contaminated packaging : chemical or used container.
 Send to a licensed waste management company.
 Dispose of in accordance with all applicable local, state and
 federal regulations.
 : 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.
 Do not burn, or use a cutting torch on, the empty drum.

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



SAFETY DATA SHEET

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 679741

UN	1993	FLAMMABLE LIQUID, N.O.S. (HYDROTREATED HEAVY NAPHTHA)	3	III	MARINE POLLUTANT:(POLYETHER AMINE)LIMITE D QUANTITY
----	------	---	---	-----	--

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1993	FLAMMABLE LIQUID, N.O.S. (HYDROTREATED HEAVY NAPHTHA)	3	III	
----	------	---	---	-----	--

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1993	FLAMMABLE LIQUID, N.O.S. (HYDROTREATED HEAVY NAPHTHA)	3	III	
----	------	---	---	-----	--

MX DG

UN	1993	FLAMMABLE LIQUID, N.O.S. (HYDROTREATED HEAVY NAPHTHA)	3	III	
----	------	---	---	-----	--

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	yes
------------------	-----

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

**EPCRA - Emergency Planning and Community Right-to-Know Act
 CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
NAPHTHALENE	91-20-3	100	59137

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard
 Acute Health Hazard
 Chronic Health Hazard



SAFETY DATA SHEET

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 679741

SARA 313

NAPHTHALENE 91-20-3 0.16 %

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:

- DSL : All components of this product are on the Canadian DSL
- AICS : On the inventory, or in compliance with the inventory
- ENCS : Not 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
- 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

Revision Date: 06/25/2018

NFPA:	HMIS III:

NFPA Flammable and Combustible Liquids Classification
 Combustible Liquid Class II

**SAFETY DATA SHEET**

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
™ Trademark, Valvoline or its subsidiaries, registered in various
countries
679741

Full text of H-Statements

H226	Flammable liquid and vapor.
H227	Combustible liquid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer if inhaled.

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.

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.

**SAFETY DATA SHEET**

Revision Date: 06/25/2018

Print Date: 9/10/2019

SDS Number: 000000130059

Version: 1.4

Valvoline Professional Series™ Complete Fuel System Treatment
™ Trademark, Valvoline or its subsidiaries, registered in various
countries
679741

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

SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various countries
 888674

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Valvoline Professional Series™ INTAKE CLEANER AEROSOL

™ Trademark, Valvoline or its subsidiaries, registered in various countries

Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Cleaner.

<p>Details of the supplier of the safety data sheet Valvoline LLC 100 Valvoline Way Lexington, KY 40509 United States of America (USA) 1-800-TEAMVAL (1-800-832-6825)</p>	<p>Emergency telephone number 1-800-VALVOLINE (1-800-825-8654)</p> <p>Regulatory Information Number 1-800-TEAMVAL (1-800-832-6825)</p> <p>Product Information 1-800-TEAMVAL (1-800-832-6825)</p>
---	--

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :  

Signal Word : Danger

Hazard Statements : Highly flammable liquid and vapor.
 Causes serious eye damage.

Precautionary Statements : **Prevention:**
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 888674

Keep container tightly closed.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Wear protective gloves/ eye protection/ face protection.

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

Store in a well-ventilated place. Keep cool.

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 (%)
PROPANOIC ACID, PROPYL ESTER	106-36-5	Flam. Liq. 2; H225 Acute Tox. 4; H332	>=40.00 - < 50.00
ETHANOL	64-17-5	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336	>=5.00 - < 10.00
N,N-dimethyl 9-decenamide	1356964-77-6	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 3; H335	>=5.00 - < 10.00

SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 888674

ETHYL ACETATE	141-78-6	Flam. Liq. 2; H225 STOT SE 3; H336	>=5.00 - < 10.00
ETHOXYLATED ALCOHOL		Eye Irrit. 2B; H320	>=1.50 - < 5.00
QUATERNARY AMINE COMPOUND		Eye Dam. 1; H318	>=3.00 - < 5.00
GLYCERIN	56-81-5	Not a hazardous substance or mixture.	>=1.00 - < 1.50

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.
If on clothes, remove clothes.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
- 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.
Causes serious eye damage.
- Notes to physician : No hazards which require special first aid measures.

SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 888674

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Foam
 Alcohol-resistant foam
 Carbon dioxide (CO₂)
 Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
 Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
 Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Hydrocarbons
 carbon dioxide and carbon monoxide
 formaldehyde-like
 Aldehydes
 nitrogen oxides (NO_x)
- 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.
 Use a water spray to cool fully closed containers.
- 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 : Evacuate personnel to safe areas.
 Remove all sources of ignition.
 Use personal protective equipment.
 Ensure adequate ventilation.
 Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
 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

SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various countries
 888674

respective authorities.

Methods and materials for containment and 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.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Open drum carefully as content may be under pressure. Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Container hazardous when empty. Take precautionary measures against static discharges. Avoid contact with skin and eyes. 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. No smoking.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ETHANOL	64-17-5	STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm	OSHA P0

SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 888674

			1,900 mg/m3	
		PEL	1,000 ppm	CAL PEL
			1,900 mg/m3	
ETHYL ACETATE	141-78-6	TWA	400 ppm	ACGIH
		TWA	400 ppm	NIOSH REL
			1,400 mg/m3	
		TWA	400 ppm	OSHA Z-1
			1,400 mg/m3	
		TWA	400 ppm	OSHA P0
			1,400 mg/m3	
		PEL	400 ppm	CAL PEL
			1,400 mg/m3	
GLYCERIN	56-81-5	TWA	5 mg/m3	OSHA Z-1
			mist, respirable fraction	
		TWA	15 mg/m3	OSHA Z-1
			mist, total dust	
		PEL	10 mg/m3	CAL PEL
			Mist - total fraction	
		PEL	5 mg/m3	CAL PEL
			Mist - respirable fraction	
		TWA	10 mg/m3	OSHA P0
			Mist - total dust	
		TWA	5 mg/m3	OSHA P0
			Mist - respirable fraction	

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

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
 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.

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

Eye protection : Wear chemical splash goggles and face shield when there is

SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various countries
 888674

potential for exposure of the eyes or face to liquid, vapor or mist.
 Maintain eye wash station in immediate work area.

Skin and body protection : Wear as appropriate:
 Impervious clothing
 Safety shoes
 Flame-resistant clothing
 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

Appearance : liquid
 Odour : citrus
 Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : > 95 °F / > 35 °C

Flash point : 72 °F / 22 °C
 Method: Pensky-Martens closed 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 : Expected 18 - 98 hPa

Relative vapour density : No data available

Relative density : No data available

Density : ca. 0.934 g/cm³ (68 °F / 20 °C)

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
™ Trademark, Valvoline or its subsidiaries, registered in various
countries
888674

Solubility(ies)
Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-
octanol/water : No data available
Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

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 : Vapours may form explosive mixture with air.
Conditions to avoid : Heat, flames and sparks.
excessive heat
Incompatible materials : Acids
Alkali metals
aluminum
Amines
Ammonia
Bases
halogens
inorganic materials
Lead
nitrates
Oxidizing agents
sodium
strong alkalis
Zinc
Peroxides

Hazardous decomposition
products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various countries
 888674

Information on likely routes of exposure

- Inhalation
- Skin contact
- Eye Contact
- Ingestion

Acute toxicity

Not classified based on available information.

Product:

- Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method
- Acute inhalation toxicity : Acute toxicity estimate: 26.89 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:

PROPANOIC ACID, PROPYL ESTER:

- Acute oral toxicity : LD50 (Rat): 10,331 mg/kg
- Acute inhalation toxicity : Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.
- Acute dermal toxicity : LD50 (Rabbit): > 14,128 mg/kg

ETHANOL:

- Acute oral toxicity : LD50 (Rat): 7,060 mg/kg
- Acute inhalation toxicity : LC50 (Rat): 117 - 125 mg/l
Exposure time: 4 h
Test atmosphere: vapour
- Acute dermal toxicity : LD Lo (Rabbit): 20 g/kg

N,N-dimethyl 9-decenamide:

- Acute oral toxicity : LD50 (Rat): 550 mg/kg
Method: OECD Test Guideline 425
- Acute inhalation toxicity : LC50 (Rat): > 3.551 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: Not classified as acutely toxic by inhalation under GHS.
- Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 402

ETHYL ACETATE:

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

SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 888674

Acute inhalation toxicity : LC0 (Rat): > 6000 ppm
 Exposure time: 6 h
 Test atmosphere: vapour
 Assessment: Not classified as acutely toxic by inhalation
 under GHS.

Acute dermal toxicity : LD50 (Rabbit): > 20,000 mg/kg

GLYCERIN:

Acute oral toxicity : LD50 (Rat): 12,600 mg/kg
 Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 570 mg/m3
 Exposure time: 1 h
 Test atmosphere: vapour
 Assessment: Not classified as acutely toxic by inhalation
 under GHS.

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

ETHANOL:

Result : Slight, transient irritation

N,N-dimethyl 9-decenamide:

Method : OECD Test Guideline 439
 Result : Irritating to skin.

ETHYL ACETATE:

Species : Rabbit
 Result : Slight, transient irritation

GLYCERIN:

Species : Rabbit
 Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

ETHANOL:

Result : Irritating to eyes.

N,N-dimethyl 9-decenamide:

Result : Irritating to eyes.

SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 888674

Method : OECD Test Guideline 437

ETHYL ACETATE:

Species : Rabbit
 Result : Slight, transient irritation

ETHOXYLATED ALCOHOL:

Result : Mild eye irritation

QUATERNARY AMINE COMPOUND:

Result : Corrosive

GLYCERIN:

Species : Rabbit
 Result : Slight, transient irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

N,N-dimethyl 9-decenamide:

Test Type : Local lymph node assay
 Species : Mouse
 Assessment : Did not cause sensitisation on laboratory animals.
 Method : OECD Test Guideline 429

ETHYL ACETATE:

Test Type : Maximisation Test
 Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:

N,N-dimethyl 9-decenamide:

Genotoxicity in vitro : Test Type: Ames test
 Test system: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
 Species: Mouse
 Cell type: Bone marrow
 Method: OECD Test Guideline 474
 Result: negative

ETHYL ACETATE:

Genotoxicity in vitro : Test Type: Ames test

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
™ Trademark, Valvoline or its subsidiaries, registered in various
countries
888674

Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative

GLYCERIN:

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.

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components:**ETHANOL:**

Assessment : May cause drowsiness or dizziness.

N,N-dimethyl 9-decenamide:

Exposure routes : Inhalation
Target Organs : Respiratory Tract
Assessment : May cause respiratory irritation.

ETHYL ACETATE:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks : Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 888674

Ecotoxicity

Product:

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Acute aquatic toxicity Category 2; Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

Components:

ETHANOL:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 12,000 - 16,000 mg/l
 Exposure time: 96 h
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
 Exposure time: 48 h
 Test Type: static test

N,N-dimethyl 9-decenamide:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 7.5 mg/l
 Exposure time: 96 h
 Test Type: flow-through test
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.8 mg/l
 Exposure time: 48 h
 Test Type: flow-through test
 Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 6.3 mg/l
 End point: Biomass
 Exposure time: 96 h
 Test Type: static test
 Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (microalgae)): 1.1 mg/l
 End point: Biomass
 Exposure time: 96 h
 Test Type: static test
 Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): >= 0.71 mg/l
 Exposure time: 35 d
 Test Type: flow-through test
 Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): > 0.37 mg/l
 Exposure time: 21 d

SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 888674

(Chronic toxicity)

Test Type: semi-static test
 Method: OECD Test Guideline 211

ETHYL ACETATE:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 220 - 250 mg/l
 Exposure time: 96 h
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): 154 mg/l
 Exposure time: 48 h
 Test Type: static test

Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201
 GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia (water flea)): 2.4 mg/l
 Exposure time: 21 d
 Test Type: semi-static test
 Method: OECD Test Guideline 211

ETHOXYLATED ALCOHOL:

Ecotoxicology Assessment
 Short-term (acute) aquatic hazard : Toxic to aquatic life.

QUATERNARY AMINE COMPOUND:

Ecotoxicology Assessment
 Short-term (acute) aquatic hazard : Toxic to aquatic life.
 Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

GLYCERIN:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 1,955 mg/l
 Exposure time: 48 h
 Test Type: static test

Persistence and degradability

N,N-dimethyl 9-decenamide:

Biodegradability : Result: Readily biodegradable.
 Biodegradation: 63.93 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301B

SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 888674

ETHYL ACETATE:
 Biodegradability : Result: Readily biodegradable.

GLYCERIN:
 Biodegradability : Result: Readily biodegradable.
 Biodegradation: 94 %
 Exposure time: 1 d

No data available
Bioaccumulative potential

ETHANOL:
 Partition coefficient: n-octanol/water : log Pow: -0.31
 N,N-dimethyl 9-decenamide:
 Partition coefficient: n-octanol/water : log Pow: 3.17 (30 °C)
 pH: 6.69

ETHYL ACETATE:
 Bioaccumulation : Species: Green algae (*Chlorella fusca vacuolata*)
 Bioconcentration factor (BCF): 13,500
 Exposure time: 24 h
 Concentration: 0.05 mg/l
 Method: Static

Partition coefficient: n-octanol/water : log Pow: 0.68

GLYCERIN:
 Partition coefficient: n-octanol/water : log Pow: -1.76

No data available

Mobility in soil

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., Toxic to aquatic life., Harmful to aquatic life with long lasting effects.

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.



SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 888674

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.
 Do not burn, or use a cutting torch on, the empty drum.

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

UN 1993	FLAMMABLE LIQUID, N.O.S. (PROPANOIC ACID, PROPYL ESTER)	3		II	LIMITED QUANTITY
---------	---	---	--	----	------------------

CFR_RAIL_C

UN 1993	FLAMMABLE LIQUID, N.O.S. (PROPANOIC ACID, PROPYL ESTER)	3		II	LIMITED QUANTITY
---------	---	---	--	----	------------------

U.S. DOT - INLAND WATERWAYS

UN 1993	FLAMMABLE LIQUID, N.O.S. (PROPANOIC ACID, PROPYL ESTER)	3		II	LIMITED QUANTITY
---------	---	---	--	----	------------------

TDG_ROAD_C

UN 1993	FLAMMABLE LIQUID, N.O.S. (PROPANOIC ACID, PROPYL ESTER)	3		II	LIMITED QUANTITY
---------	---	---	--	----	------------------

TDG_RAIL_C

UN 1993	FLAMMABLE LIQUID, N.O.S. (PROPANOIC ACID, PROPYL ESTER)	3		II	LIMITED QUANTITY
---------	---	---	--	----	------------------

TDG_INWT_C



SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
 ™ Trademark, Valvoline or its subsidiaries, registered in various
 countries
 888674

UN	1993	FLAMMABLE LIQUID, N.O.S. (PROPANOIC ACID, PROPYL ESTER)	3	II	LIMITED QUANTITY
----	------	---	---	----	---------------------

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1993	FLAMMABLE LIQUID, N.O.S. (PROPANOIC ACID, PROPYL ESTER)	3	II	LIMITED QUANTITY
----	------	---	---	----	---------------------

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1993	FLAMMABLE LIQUID, N.O.S. (PROPANOIC ACID, PROPYL ESTER)	3	II	
----	------	---	---	----	--

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1993	FLAMMABLE LIQUID, N.O.S. (PROPANOIC ACID, PROPYL ESTER)	3	II	
----	------	---	---	----	--

MX_DG

UN	1993	FLAMMABLE LIQUID, N.O.S. (PROPANOIC ACID, PROPYL ESTER)	3	II	
----	------	---	---	----	--

*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

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ETHYL ACETATE	141-78-6	5000	76221



SAFETY DATA SHEET

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
™ Trademark, Valvoline or its subsidiaries, registered in various
countries
888674

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Serious eye damage or eye irritation

California Prop. 65

This product contains a chemical that is at or below California Propositions 65's "safe harbor level" for reproductive/developmental toxicity as determined via a risk assessment. Therefore, the chemical is not required to be listed as a Prop 65 chemical on the SDS or label.

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

- DSL : This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.
- AICS : Not in compliance with the inventory
- ENCS : Not in compliance with the inventory
- KECI : Not in compliance with the inventory
- PICCS : Not in compliance with the inventory
- IECSC : Not in compliance with the inventory
- TCSI : Not in compliance with the inventory
- TSCA : On TSCA Inventory

TSCA list

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 11/12/2018

NFPA:

HMIS III:



SAFETY DATA SHEET

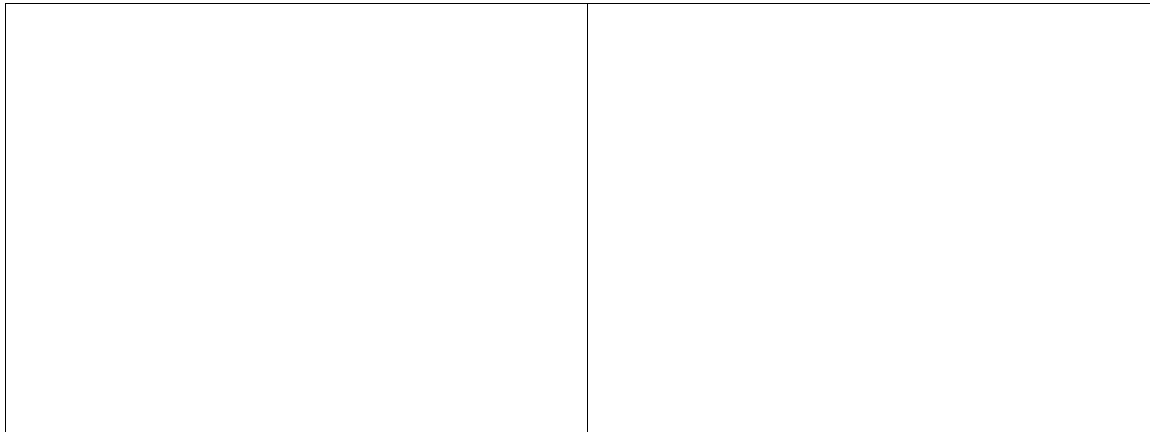
Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
™ Trademark, Valvoline or its subsidiaries, registered in various
countries
888674



NFPA Flammable and Combustible Liquids Classification
Flammable Liquid Class IA

Full text of H-Statements

- H225 Highly flammable liquid and vapor.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H320 Causes eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

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).

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 9/10/2019

SDS Number: 000000273071

Version: 3.5

Valvoline Professional Series™ INTAKE CLEANER AEROSOL
™ Trademark, Valvoline or its subsidiaries, registered in various
countries
888674

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