		Page: 1
<b>SAFETY DATA SHEET</b>		Revision Date: 11/12/2018
		Print Date: 7/24/2019
		SDS Number: 000000273071
Valvoline Professional Series Intake Cleaner		Version: 3.5
884526		

29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

Trade name : Valvoline Professional Series Intake Cleaner

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

Recommended use : Cleaner.

<p><b>Details of the supplier of the safety data sheet</b>  Valvoline LLC  100 Valvoline Way  Lexington, KY 40509  United States of America (USA)  1-800-TEAMVAL (1-800-832-6825)</p>	<p><b>Emergency telephone number</b>  1-800-VALVOLINE (1-800-825-8654)</p> <p><b>Regulatory Information Number</b>  1-800-TEAMVAL (1-800-832-6825)</p> <p><b>Product Information</b>  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.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting/ equipment.

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

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: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

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 : No symptoms known or expected.  
Causes serious eye damage.

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

delayed

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

Carbon dioxide (CO<sub>2</sub>)

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<sub>x</sub>)

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.

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

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.

---

**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**

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

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

**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



**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

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 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

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

- 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/cm<sup>3</sup> (68 °F / 20 °C)
- 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



**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

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****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

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

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

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.

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

**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.  
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.

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

**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  
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

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

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****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 testToxicity 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 203Toxicity 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 202Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 6.3 mg/l  
End point: Biomass  
Exposure time: 96 h

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

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)):  $\geq 0.71$  mg/l  
Exposure time: 35 d  
Test Type: flow-through test  
Method: OECD Test Guideline 210

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

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

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

**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



<b>SAFETY DATA SHEET</b>		Revision Date: 11/12/2018
		Print Date: 7/24/2019
		SDS Number: 000000273071
Valvoline Professional Series Intake Cleaner		Version: 3.5
884526		

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.

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
----	------	---	---	----	------------------





**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

**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**

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

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

Version: 3.5

884526

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

**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.

**SAFETY DATA SHEET**

Revision Date: 11/12/2018

Print Date: 7/24/2019

SDS Number: 000000273071

Valvoline Professional Series Intake Cleaner

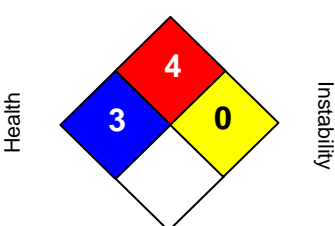
Version: 3.5

884526

**SECTION 16. OTHER INFORMATION**

**Further information**

Revision Date: 11/12/2018

<p><b>NFPA:</b></p> <div style="text-align: center;"> <p>Flammability</p>  <p>Health      Instability</p> <p>Special hazard.</p> </div>	<p><b>HMIS III:</b></p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: blue; color: white;"><b>HEALTH</b></td> <td style="text-align: center;"><b>3</b></td> </tr> <tr> <td style="background-color: red; color: white;"><b>FLAMMABILITY</b></td> <td style="text-align: center;"><b>4</b></td> </tr> <tr> <td style="background-color: yellow;"><b>PHYSICAL HAZARD</b></td> <td style="text-align: center;"><b>0</b></td> </tr> </table> <p>0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	<b>HEALTH</b>	<b>3</b>	<b>FLAMMABILITY</b>	<b>4</b>	<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>HEALTH</b>	<b>3</b>						
<b>FLAMMABILITY</b>	<b>4</b>						
<b>PHYSICAL HAZARD</b>	<b>0</b>						

**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).

		Page: 20
<b>SAFETY DATA SHEET</b>		Revision Date: 11/12/2018
		Print Date: 7/24/2019
		SDS Number: 000000273071
Valvoline Professional Series Intake Cleaner		Version: 3.5
884526		

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