



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
Valvoline™ PETROL SYSTEM PROTECTOR

Version: 5.0

Revision Date: 05.04.2023

Print Date: 23/06/2023

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## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1 Product identifier**

Trade name : Valvoline™ PETROL SYSTEM PROTECTOR

Product code : 890611

Unique Formula Identifier (UFI) : AURC-3SWQ-Y00Y-72NS

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

Use of the substance/mixture : Fuels and fuel additives

### **1.3 Details of the supplier of the safety data sheet**

Company : Ellis Enterprises B.V., an affiliate of Valvoline  
Wieldrechtseweg 39  
3316 BG Dordrecht  
Netherlands

Telephone : +31 (0)78 654 3500 (in the Netherlands), or contact your local CSR contact person

E-mail address of person responsible for the SDS : SDS@valvoline.com

### **1.4 Emergency telephone number**

00-800-825-8654 / 001-859-202-3865, or contact your local emergency telephone number at 112

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## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Flammable liquids, Category 2

H225: Highly flammable liquid and vapour.

Eye irritation, Category 2

H319: Causes serious eye irritation.

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Specific target organ toxicity - single exposure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

## 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.

### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Storage:

P405 Store locked up.



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**Disposal:**

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

Hazardous components which must be listed on the label:

Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics  
 ISOPROPANOL

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics	64742-48-9 927-241-2 649-327-00-6 01-2119471843-32-xxxx	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 80 - < 90
ISOPROPANOL	67-63-0 200-661-7 603-117-00-0 01-2119457558-25-xxxx	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 15 - < 20
OLEYL HYDROXYETHYL IMIDAZOLINE	95-38-5 202-414-9 01-2119777867-13-xxxx	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 STOT RE 2; H373 (Gastrointestinal tract, thymus gland) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.5 - < 1
		M-Factor (Acute)	



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		aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	
OLEYL N-METHYLGLYCINE	110-25-8 203-749-3 01-2119488991-20-xxxx	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400  M-Factor (Acute aquatic toxicity): 1	>= 0.5 - < 1

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
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.  
Take victim immediately to hospital.

**4.2 Most important symptoms and effects, both acute and delayed**

- Symptoms : No symptoms known or expected.



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Risks : May be fatal if swallowed and enters airways.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.

May be fatal if swallowed and enters airways.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment : No hazards which require special first aid measures.  
  
Treat symptomatically.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.



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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

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.

### 6.3 Methods and material for containment and cleaning up

Methods for 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).

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.



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- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

**7.2 Conditions for safe storage, including any incompatibilities**

- Requirements for storage areas and containers : No smoking. 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. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

- Specific use(s) : No data available

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
ISOPROPANOL	67-63-0	TWA	400 ppm 999 mg/m3	GB EH40
		STEL	500 ppm 1,250 mg/m3	GB EH40

**Derived No Effect Level (DNEL):**

Substance name	End Use	Exposure routes	Potential health effects	Value
OLEYL HYDROXYETHYL IMIDAZOLINE	Workers	Inhalation	Long-term systemic effects	0.46 mg/m3
Remarks: RD TOX - Repeated dose toxicity				



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	Workers	Inhalation	Acute systemic effects	14 mg/m3
Remarks:RD TOX - Repeated dose toxicity				
	Workers	Dermal	Long-term systemic effects	0.06 mg/kg
Remarks:RD TOX - Repeated dose toxicity				
	Workers	Dermal	Acute systemic effects	2 mg/kg
Remarks:RD TOX - Repeated dose toxicity				

**Predicted No Effect Concentration (PNEC):**

Substance name	Environmental Compartment	Value
OLEYL HYDROXYETHYL IMIDAZOLINE	Sewage treatment plant	0.27 mg/l
	Fresh water sediment	0.376 mg/kg
	Marine sediment	0.0376 mg/kg
	Soil	0.075 mg/kg
OLEYL N-METHYLGLYCINE	Sewage treatment plant	13 mg/l

**8.2 Exposure controls**

**Personal protective equipment**

Eye/face protection : Eye wash bottle with pure water  
 Tightly fitting safety goggles  
 Wear face-shield and protective suit for abnormal processing problems.

Hand protection

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

Skin and body protection : Impervious clothing  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : No personal respiratory protective equipment normally required.

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**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Appearance : liquid

Colour : yellow





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Odour	:	amine-like
Odour Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	< 13 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	12 %(V)
Lower explosion limit / Lower flammability limit	:	0.6 %(V)
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	ca. 0.756 g/cm <sup>3</sup> (20 °C)
Solubility(ies)		
Water solubility	:	insoluble
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	:	ca. 7 mm <sup>2</sup> /s (40 °C)
Oxidizing properties	:	No data available



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**9.2 Other information**

Self-ignition : No data available

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

**10.4 Conditions to avoid**

Conditions to avoid : None known.

**10.5 Incompatible materials**

Materials to avoid : Acids  
Aldehydes  
alkalis  
Amines  
Ethylene oxide  
halogens  
isocyanates  
Strong oxidizing agents  
Do not use with aluminum equipment at temperatures above 49C or 120 degrees F.

**10.6 Hazardous decomposition products**

No hazardous decomposition products are known.

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**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

Not classified based on available information.

Not classified based on available information.



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**Components:**

**Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:**

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Remarks: The toxicological data has been taken from products of similar composition.
Acute inhalation toxicity	:	LC50 (Rat): > 5.0 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity Remarks: The toxicological data has been taken from products of similar composition.
Acute dermal toxicity	:	LD50 (Rabbit): >= 3,160 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Remarks: No mortality observed at this dose. The toxicological data has been taken from products of similar composition.

**ISOPROPANOL:**

Acute oral toxicity	:	LD50 (Rat): 5.84 g/kg
Acute inhalation toxicity	:	LC50 (Rat): 16000 ppm Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): 12,800 mg/kg

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Acute oral toxicity	:	LD50 (Rat): ca. 1,265 mg/kg
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**OLEYL N-METHYLGLYCINE:**

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 1.01 - 1.85 mg/l Exposure time: 4 h Test atmosphere: dust/mist

**Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.



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Not classified based on available information.

**Product:**

Remarks : May cause skin irritation and/or dermatitis.

**Components:**

**Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:**

Species	:	Rabbit
Assessment	:	Slight, transient irritation
Method	:	OECD Test Guideline 404

**ISOPROPANOL:**

Result	:	Slight, transient irritation
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**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Corrosive after 1 to 4 hours of exposure

**OLEYL N-METHYLGLYCINE:**

Species	:	Rabbit
Result	:	Irritating to skin.

**Serious eye damage/eye irritation**

Causes serious eye irritation.  
Causes serious eye irritation.

**Product:**

Remarks : May cause irreversible eye damage.

**Components:**

**Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:**

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
Remarks	:	The toxicological data has been taken from products of similar composition.

**ISOPROPANOL:**

Result	:	Irritating to eyes.
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**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Result : Corrosive

**OLEYL N-METHYLGLYCINE:**

Species : Rabbit  
Result : Corrosive

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:**

**Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Method : OECD Test Guideline 406  
Remarks : The toxicological data has been taken from products of similar composition.

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406

**OLEYL N-METHYLGLYCINE:**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.

**Germ cell mutagenicity**

Not classified based on available information.

Not classified based on available information.



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**Components:**

**Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:**

Genotoxicity in vitro	: Test Type: <b>Ames test</b> Result: <b>negative</b> Remarks: <b>The toxicological data has been taken from products of similar composition.</b>
Germ cell mutagenicity-Assessment	: <b>Classified based on benzene content &lt; 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)</b>

**OLEYL N-METHYLGLYCINE:**

Genotoxicity in vitro	: Test Type: <b>Ames test</b> Test system: <b>Salmonella typhimurium</b> Metabolic activation: <b>with and without metabolic activation</b> Result: <b>negative</b>
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**Carcinogenicity**

Not classified based on available information.  
Not classified based on available information.

**Components:**

**Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:**

Carcinogenicity - Assessment	: <b>Classified based on benzene content &lt; 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)</b>
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**Reproductive toxicity**

Not classified based on available information.  
Not classified based on available information.

**STOT - single exposure**

May cause drowsiness or dizziness.  
May cause drowsiness or dizziness.

**Components:**

**Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:**

Assessment	: <b>May cause drowsiness or dizziness.</b>
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**ISOPROPANOL:**

Assessment	: <b>May cause drowsiness or dizziness.</b>
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**STOT - repeated exposure**

Not classified based on available information.



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Not classified based on available information.

**Components:**

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Exposure routes	:	Ingestion
Target Organs	:	Gastrointestinal tract, thymus gland
Assessment	:	May cause damage to organs through prolonged or repeated exposure.

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

**Components:**

**Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:**

May be fatal if swallowed and enters airways.

**Further information**

**Product:**

Remarks	:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.
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**Components:**

**ISOPROPANOL:**

Remarks	:	Central nervous system
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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Product:**

**Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.



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## Components:

### Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:

Toxicity to fish	:	LL50 (Oncorhynchus mykiss (rainbow trout)): > 10 - < 30 mg/l Exposure time: 96 h Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 22 - < 46 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	:	NOELR: 0.182 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout) Method: QSAR

### Ecotoxicology Assessment

Acute aquatic toxicity	:	Harmful to aquatic life.
Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.

### ISOPROPANOL:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 5,770 - 7,450 mg/l Exposure time: 96 h Test Type: flow-through test
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h Test Type: static test

### Ecotoxicology Assessment

Acute aquatic toxicity	:	Not classified based on available information.
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Chronic aquatic toxicity : **Not classified based on available information.**

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Toxicity to fish : **LC50 (Danio rerio (zebra fish)): 0.3 mg/l**  
Exposure time: **96 h**  
Test Type: **static test**  
Method: **OECD Test Guideline 203**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): 0.163 mg/l**  
Exposure time: **48 h**  
Test Type: **semi-static test**  
Method: **OECD Test Guideline 202**

Toxicity to algae/aquatic plants : **EC50 (Desmodesmus subspicatus (green algae)): 0.03 mg/l**  
End point: **Growth inhibition**  
Exposure time: **72 h**  
Test Type: **static test**  
Method: **OECD Test Guideline 201**

M-Factor (Acute aquatic toxicity) : **10**

M-Factor (Chronic aquatic toxicity) : **1**

**Ecotoxicology Assessment**

Acute aquatic toxicity : **Acute aquatic toxicity Category 1; Very toxic to aquatic life.**

Chronic aquatic toxicity : **Chronic aquatic toxicity Category 1; Very toxic to aquatic life with long lasting effects.**

**OLEYL N-METHYLGLYCINE:**

Toxicity to fish : **LC50 (Leuciscus idus (Golden orfe)): 9.3 mg/l**  
Exposure time: **96 h**  
Test Type: **static test**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): 0.43 mg/l**  
Exposure time: **48 h**  
Test Type: **static test**

Toxicity to algae/aquatic plants : **EC50 (Desmodesmus subspicatus (green algae)): 6.3 mg/l**  
End point: **Growth inhibition**  
Exposure time: **72 h**  
Test Type: **static test**



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M-Factor (Acute aquatic toxicity) : 1

**Ecotoxicology Assessment**

Acute aquatic toxicity : Acute aquatic toxicity Category 1; Very toxic to aquatic life.

Chronic aquatic toxicity : Not classified based on available information.

**12.2 Persistence and degradability**

**Components:**

**Hydrocarbons, C9-C10,n-alkanes, iso-alkanes,cyclics, <2% aromatics:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 89 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 1 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

**OLEYL N-METHYLGLYCINE:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 85 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

**12.3 Bioaccumulative potential**

**Components:**

**ISOPROPANOL:**

Partition coefficient: n-octanol/water : log Pow: 0.05

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Partition coefficient: n-octanol/water : log Pow: 8

**OLEYL N-METHYLGLYCINE:**



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Partition coefficient: n-octanol/water : log Pow: 3.5 - 4.2

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

**Product:**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : 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.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.



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**SECTION 14: Transport information**

**14.1 UN number**

<b>ADR</b>	:	UN 1993
<b>RID</b>	:	UN 1993
<b>IMDG</b>	:	UN 1993
<b>IATA</b>	:	UN 1993

**14.2 UN proper shipping name**

<b>ADR</b>	:	FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY, ISOPROPANOL)
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<b>RID</b>	:	FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY, ISOPROPANOL)
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<b>IMDG</b>	:	FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY, ISOPROPANOL)
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<b>IATA</b>	:	Flammable liquid, n.o.s. (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY, ISOPROPANOL)
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**14.3 Transport hazard class(es)**

<b>ADR</b>	:	3
<b>RID</b>	:	3
<b>IMDG</b>	:	3
<b>IATA</b>	:	3

**14.4 Packing group**

<b>ADR</b>		
Packing group	:	II
Classification Code	:	F1
Hazard Identification Number	:	33
Labels	:	3
Tunnel restriction code	:	(D/E)

<b>RID</b>		
Packing group	:	II
Classification Code	:	F1
Hazard Identification Number	:	33
Labels	:	3



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## IMDG

Packing group : II  
Labels : 3  
EmS Code : F-E, S-E

## IATA (Cargo)

Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

## IATA\_P (Passenger)

Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

#### RID

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the



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		following entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
Control of Major Accident Hazards Regulations 2015 (COMAH)	P5c 34	FLAMMABLE LIQUIDS Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

**Other regulations:**

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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

TCSI	:	Not in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIIC	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.



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## POLYETHER

1-Propene, 2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia

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
NZIoC	:	Not in compliance with the inventory

## 15.2 Chemical safety assessment

No data available

### Inventories

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

## SECTION 16: Other information

### Full text of H-Statements

H225	:	Highly flammable liquid and vapour.
H226	:	Flammable liquid and vapour.
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.
H336	:	May cause drowsiness or dizziness.
H373	:	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard



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Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Internal information : 000000272890





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**Classification of the mixture:**

Flam. Liq. 2	H225
Eye Irrit. 2	H319
STOT SE 3	H336
Asp. Tox. 1	H304
Aquatic Chronic 3	H412

**Classification procedure:**

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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