



SAFETY DATA SHEET

Valvoline™ HIGH PRESSURE LUBE Protectant

Version: 1.0

Revision Date: 22.11.2019

Print Date: 14/09/2022

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_GB

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

1.1 Product identifier

Trade name : Valvoline™ HIGH PRESSURE LUBE
Protectant

Product code : 889708

1.3 Details of the supplier of the safety data sheet

Ellis Enterprises B.V., an affiliate of Valvoline
Wieldrechtseweg 39
3316 BG Dordrecht
Netherlands
+31 (0)78 654 3500 (in the Netherlands), or
contact your local CSR contact person

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

Product Information

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1

H229: Pressurised container: May burst if heated.

H222: Extremely flammable aerosol.

Skin irritation, Category 2

H315: Causes skin irritation.

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

H336: May cause drowsiness or dizziness.

Long-term (chronic) aquatic hazard,
Category 2

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements






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UFI	:	NACS-6NR8-4T4D-732T
Labelling (REGULATION (EC) No 1272/2008)		
Hazard pictograms	:	  
Signal word	:	Danger
Hazard statements	:	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H411 Toxic 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: P260 Do not breathe spray. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. Response: P391 Collect spillage. Storage: P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Disposal: P501 Dispose of contents/container in accordance with regional regulations.

Hazardous components which must be listed on the label:

Naphtha (petroleum), hydrotreated light

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

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.

Additional advice

No information available.

SECTION 3: Composition/information on ingredients



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3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Naphtha (petroleum), hydrotreated light	64742-49-0 931-254-9	Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 40,00 - < 50,00
propane	74-98-6 200-827-9 01-2119486944-21-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 15,00 - < 25,00
Isobutane	75-28-5 200-857-2 01-2119485395-27-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 10,00 - < 15,00
Hydrocarbons, C9-C11, n-alkanes, iso- alkanes, cyclenes, <2% aromatics	64742-48-9 919-857-5 01-2119463258-33-xxxx	Flam. Liq.3; H226 STOT SE3; H336 Asp. Tox.1; H304	>= 2,50 - < 5,00
Substances with a workplace exposure limit :			
Butane	106-97-8 203-448-7 01-2119474691-32-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 10,00 - < 15,00

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Do not leave the victim unattended.
Show this safety data sheet to the doctor in attendance.
Call a POISON CENTRE or doctor/physician if exposed or
you feel unwell.
Move out of dangerous area.



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- | | |
|-------------------------|---|
| If inhaled | : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
Move to fresh air. |
| In case of skin contact | : Wash contaminated clothing before re-use.
If on skin, rinse well with water.
Remove contaminated clothing. If irritation develops, get medical attention. |
| In case of eye contact | : If eye irritation persists, consult a specialist.
Protect unharmed eye.
Remove contact lenses.
Flush eyes with water as a precaution. |
| If swallowed | : If symptoms persist, call a physician.
Never give anything by mouth to an unconscious person.
Do not give milk or alcoholic beverages. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|----------|---|
| Symptoms | : No symptoms known or expected. |
| Risks | : May cause drowsiness or dizziness.
Causes skin irritation. |

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|-----------|--|
| Treatment | : No hazards which require special first aid measures. |
|-----------|--|

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | |
|--------------------------------|---|
| Suitable extinguishing media | : Dry chemical
Carbon dioxide (CO ₂)
Alcohol-resistant foam
Foam
Water spray
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : High volume water jet |



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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.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
- Hazardous combustion products : Hydrocarbons
carbon dioxide and carbon monoxide

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Use a water spray to cool fully closed containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Ensure adequate ventilation.
Use personal protective equipment.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

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



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6.3 Methods and material for containment and cleaning up

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Container may be opened only under exhaust ventilation hood.
Dispose of rinse water in accordance with local and national regulations.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Avoid contact with skin and eyes.
Avoid exposure - obtain special instructions before use.
Take precautionary measures against static discharges.
Container hazardous when empty.
Do not smoke.
Do not breathe vapours/dust.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
- Advice on protection against fire and explosion : Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
- Hygiene measures : When using do not smoke. When using do not eat or drink.
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. Observe label precautions. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.
- Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : No data available



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Butane	106-97-8	STEL	750 ppm 1.810 mg/m ³	GB EH40
		TWA	600 ppm 1.450 mg/m ³	GB EH40

8.2 Exposure controls

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

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Hand protection

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

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

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

SECTION 9: Physical and chemical properties



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9.1 Information on basic physical and chemical properties

Appearance	: aerosol
Colour	: light brown
Odour	: solvent-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	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: 3.500 hPa (20 °C) No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0,7 g/cm ³ (20 °C) No data available
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



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Viscosity
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Oxidizing properties : No data available

9.2 Other information

Self-ignition : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : None known.
Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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



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Inhalation

Acute toxicity

Not classified based on available information.

Components:

PROPANE:

Acute inhalation toxicity : LC50 (Rat): 1.237 mg/l
Exposure time: 2 h
Test atmosphere: gas
Assessment: Not classified as acutely toxic by inhalation under GHS.
Remarks: Information given is based on data obtained from similar substances.

Components:

ISOBUTANE:

Acute inhalation toxicity : LC50 (Mouse, male): 520400 ppm
Exposure time: 2 h
Test atmosphere: gas

Components:

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics:

Acute oral toxicity : LD50 (Rat, male and female): > 15.000 mg/kg
Method: OECD Test Guideline 423
Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat): > 4,95 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit, male and female): >= 3.160 mg/kg
Method: OECD Test Guideline 402
Assessment: No adverse effect has been observed in acute dermal toxicity tests.
Remarks: Information given is based on data obtained from similar substances.

Components:



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BUTANE NORMAL:

Acute inhalation toxicity : LC50 (Mouse): 680 mg/l
Exposure time: 2 h

LC50 (Rat): > 50000 ppm
Exposure time: 2 h
Test atmosphere: gas

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Result: Irritating to skin.

ISOBUTANE:

Result: No skin irritation

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics:

Result: Slight, transient irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

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

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Result: Slight, transient irritation

ISOBUTANE:

Result: No eye irritation

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics:

Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.



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Germ cell mutagenicity

Not classified based on available information.

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Germ cell mutagenicity-
Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

PROPANE:

Genotoxicity in vitro : Test Type: Ames test
Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative
Remarks: Information given is based on data obtained from similar substances.

ISOBUTANE:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test species: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

: Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo : Test Type: in vivo assay
Test species: Drosophila melanogaster (vinegar fly)
Result: negative
Remarks: Information given is based on data obtained from similar substances.

Test Type: In vivo micronucleus test
Test species: Rat
Method: OECD Test Guideline 474
Result: negative
Remarks: Information given is based on data obtained from similar substances.

BUTANE NORMAL:

Genotoxicity in vitro : Test Type: Ames test
Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative



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Carcinogenicity

Not classified based on available information.

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Carcinogenicity - : Classified based on benzene content < 0.1% (Regulation (EC)
Assessment 1272/2008, Annex VI, Part 3, Note P)

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Assessment: May cause drowsiness or dizziness.

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

May be fatal if swallowed and enters airways.

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics:

May be fatal if swallowed and enters airways.

Further information

Product:

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

SECTION 12: Ecological information



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12.1 Toxicity

Components:

Naphtha (petroleum), hydrotreated light

Ecotoxicology Assessment

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

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

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 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)): 1.000 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 202

Toxicity to algae : 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

Butane

Toxicity to fish : Remarks: No toxicity at the limit of solubility
QSAR

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): Expected > 10 - < 100 mg/l
Exposure time: 48 h
Remarks: QSAR

Toxicity to algae : EC50 (green algae): Expected 7,7 mg/l
Exposure time: 96 h
Remarks: QSAR

12.2 Persistence and degradability

Components:



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Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

Biodegradability : Result: Readily biodegradable.
Biodegradation: 80 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Butane

Biodegradability : Result: Readily biodegradable.
Remarks: Information given is based on data obtained from similar substances.

12.3 Bioaccumulative potential

Components:

propane

Partition coefficient: n-octanol/water : log Pow: 2,36

Isobutane

Partition coefficient: n-octanol/water : log Pow: 2,76

Butane

Partition coefficient: n-octanol/water : log Pow: 2,89

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:

Additional ecological information : Toxic to aquatic life with long lasting effects., An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations



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13.1 Waste treatment methods

- Product : Send to a licensed waste management company.
Do not contaminate ponds, waterways or ditches with chemical or used container.
The product should not be allowed to enter drains, water courses or the soil.
- Contaminated packaging : Do not burn, or use a cutting torch on, the empty drum.
Do not re-use empty containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Empty remaining contents.

SECTION 14: Transport information

14.1 UN number

- ADN : UN 1950
ADR : UN 1950
RID : UN 1950
IMDG : UN 1950
IATA : UN 1950

14.2 UN proper shipping name

- ADN : AEROSOLS
ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS
()
IATA : AEROSOLS

14.3 Transport hazard class(es)

- ADN : 2
ADR : 2
RID : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group



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ADN

Packing group : Not assigned by regulation
Classification Code : 5F
Labels : 2.1

ADR

Packing group : Not assigned by regulation
Classification Code : 5F
Labels : 2.1
Tunnel restriction code : (D)

RID

Packing group : Not assigned by regulation
Classification Code : 5F
Hazard Identification Number : 23
Labels : 2.1

IMDG

Packing group : Not assigned by regulation
Labels : 2.1
EmS Code : F-D, S-U

IATA (Cargo)

Packing instruction (cargo aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Flammable Gas

IATA (Passenger)

Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Flammable Gas

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes



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IATA (Cargo)

Environmentally hazardous : yes

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

Regulation (EC) No 1005/2009 on substances that
deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic
pollutants : Not applicable

REACH - List of substances subject to authorisation
(Annex XIV) : Not applicable

REACH - Candidate List of Substances of Very High
Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 649/2012 of the European
Parliament and the Council concerning the export and
import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on
the market and use of certain dangerous substances,
preparations and articles (Annex XVII) : Not applicable



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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P3a	FLAMMABLE AEROSOLS	150 t	500 t
E2	ENVIRONMENTAL HAZARDS	200 t	500 t
18	Liquefied extremely flammable gases (including LPG) and natural gas	50 t	200 t

Other regulations:

Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

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
TCSI	:	Not 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)



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15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Further information

Internal information : 000000276184

Full text of H-Statements

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Other information : 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 ('+31 (0)78 654 3500).

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.

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



SAFETY DATA SHEET

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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

ABM : Water Hazard Class for the Netherlands

ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.

ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine

CLP : Classification, Labelling and Packaging

CSA : Chemical Safety Assessment

CSR : Chemical Safety Report

DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

R-pharse : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

S-pharse: Safety phrase

WGK : German Water Hazard Class