



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

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™ VAL SYNTHETIC CHAIN LUBE

Product code : 887049

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

Recommended use : Lubricant

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

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

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.



SAFETY DATA SHEET




Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

2.2 Label elements

UFI	:	H044-PMK5-UT41-PKN8
Labelling (REGULATION (EC) No 1272/2008)		
Hazard pictograms	:	  
Signal word	:	Danger
Hazard statements	:	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH066 Repeated exposure may cause skin dryness or cracking.
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. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P260 Do not breathe spray. 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 local regulation.

Hazardous components which must be listed on the label:

Pentane

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane



Signal word : Danger



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

Hazard statements	: H222 H229 H336 H411	Extremely flammable aerosol. Pressurised container: May burst if heated. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	: EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary statements	: P101 P102 P210 P211 P251 P271 P273 Response: P391 P405 P410 + P412 P501	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Collect spillage. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Pentane

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane

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

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No.	Classification (REGULATION (EC))	Concentration (%)
---------------	-------------------	-------------------------------------	-------------------



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

	Registration number	No 1272/2008)	
Pentane	109-66-0 203-692-4 01-2119459286-30-xxxx	Flam. Liq.1; H224 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, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane	921-024-6 01-2119475514-35-xxxx	Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 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 : Move out of dangerous area.
Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
If unconscious, place in recovery position and seek medical advice.
Consult a physician after significant exposure.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

- Wash contaminated clothing before re-use.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.
- If swallowed : Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No symptoms known or expected.
- Risks : May cause drowsiness or dizziness.
Repeated exposure may cause skin dryness or cracking.

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 : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- 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.



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

Hazardous combustion products : carbon dioxide and carbon monoxide
Hydrocarbons

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 : 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

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

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



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

7.1 Precautions for safe handling

- Advice on safe handling : Open drum carefully as content may be under pressure. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Container hazardous when empty. Take precautionary measures against static discharges. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition. Use only explosion-proof equipment.
- Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : 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. 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.
- Other data : 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	Control parameters	Basis
------------	---------	------------------	--------------------	-------



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

		of exposure)		
Pentane	109-66-0	TWA	1.000 ppm 3.000 mg/m ³	2006/15/EC
		TWA	600 ppm 1.800 mg/m ³	GB EH40
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 : 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.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : aerosol

Colour : light brown



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

Odour	: solvent-like
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit / Upper flammability limit	: 10,9 %(V)
Lower explosion limit / Lower flammability limit	: 1,4 %(V)
Vapour pressure	: 3,500 hPa (20 °C)
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0,649 g/cm ³ (20 °C)
Solubility(ies)	
Water solubility	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: 240 °C
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

Oxidizing properties : No data available

9.2 Other information

Self-ignition : not auto-flammable

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.

10.5 Incompatible materials

Materials to avoid : Acids
Alkali metals
Amines
Oxidizing agents
strong bases
strong reducing 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 : Inhalation
Skin contact
Eye Contact
Ingestion



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

Acute toxicity

Not classified based on available information.

Components:

PENTANE NORMAL:

Acute oral toxicity	: LD50 (Rat): > 2.000 mg/kg Assessment: Not classified as acutely toxic by ingestion under GHS. Remarks: No mortality observed at this dose.
Acute inhalation toxicity	: LC50 (Rat): > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

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, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:

Acute oral toxicity	: LD50 (Rat): > 5.840 mg/kg Remarks: Information given is based on data obtained from similar substances.
Acute inhalation toxicity	: LC50 (Rat): > 25,2 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rat): > 2.800 - 3.100 mg/kg Assessment: Not classified as acutely toxic by dermal absorption under GHS.



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

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

Components:

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

Repeated exposure may cause skin dryness or cracking.

Components:

PENTANE NORMAL:

Result: Slight, transient irritation

Result: Repeated exposure may cause skin dryness or cracking.

ISOBUTANE:

Result: No skin irritation

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:

Result: Irritating to skin.

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:

PENTANE NORMAL:

Result: Slight, transient irritation

ISOBUTANE:

Result: No eye irritation

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:

Result: Slight, transient irritation



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Components:

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.**

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:

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

BUTANE NORMAL:

Genotoxicity in vitro : Test Type: **Ames test**
Test species: **Salmonella typhimurium**



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

Metabolic activation: with and without metabolic activation
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:

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

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

PENTANE NORMAL:

Assessment: May cause drowsiness or dizziness.

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:

PENTANE NORMAL:

May be fatal if swallowed and enters airways.

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:

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.



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

SECTION 12: Ecological information

12.1 Toxicity

Components:

Pentane

Toxicity to fish	: LC50 (<i>Oncorhynchus mykiss</i> (rainbow trout)): 4,26 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (<i>Daphnia magna</i> (Water flea)): > 1 - 10 mg/l Exposure time: 48 h
Toxicity to algae	: ErC50 (<i>Pseudokirchneriella subcapitata</i> (green algae)): 10,7 mg/l Exposure time: 72 h

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane

Toxicity to fish	: LL50 (<i>Oncorhynchus mykiss</i> (rainbow trout)): 11,4 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 (<i>Daphnia hyalina</i> (water flea)): 3 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae	: EL50 (<i>Pseudokirchneriella subcapitata</i> (green algae)): > 10 - 30 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 0,17 mg/l Exposure time: 21 d Species: <i>Daphnia magna</i> (Water flea) Test Type: static test Test substance: WAF Method: OECD Test Guideline 211

Butane

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



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

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:

Pentane

Biodegradability : Result: **Readily biodegradable.**
Biodegradation: **87 %**
Exposure time: **28 d**
Method: **OECD Test Guideline 301F**

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane

Biodegradability : Inoculum: **activated sludge**
Biodegradation: **98 %**
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:

Pentane

Partition coefficient: n-octanol/water : log Pow: **3,39**

Propane

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

Isobutane

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

Butane

Partition coefficient: n- : log Pow: 2,89



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

octanol/water

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 : 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

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.
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

14.1 UN number

ADN : UN 1950
ADR : UN 1950
RID : UN 1950



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

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

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



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

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

IATA (Passenger)

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

14.5 Environmental hazards

ADN

Environmentally hazardous : no

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

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

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



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

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

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

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



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

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

TSCA : On TSCA Inventory

Inventories

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

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Further information

Internal information : 000000274788

Full text of H-Statements

H220	Extremely flammable gas.
H224	Extremely flammable liquid and vapour.
H225	Highly 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



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

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
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



SAFETY DATA SHEET

Valvoline™ VAL SYNTHETIC CHAIN LUBE

Version: 2.0

Revision Date: 22.04.2020

Print Date: 30/07/2020

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

R-phrase : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

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

S-phrase: Safety phrase

WGK : German Water Hazard Class