


**SAFETY DATA SHEET**

Revision Date: 17.10.2018

Print Date: 14.02.2019

SDS Number: 000000274674

Version: 1.0

Valvoline™ V-BELT SPRAY  
 ™ Trademark, Valvoline or its subsidiaries, registered in various countries  
 887041

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™ V-BELT SPRAY

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

**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.

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.

	
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## 2.2 Label elements

### 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 : 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.  
P273 Avoid release to the environment.  
**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  
Pentane

## 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
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	>= 15,00 - < 20,00
Substances with a workplace exposure limit :			
Butane	106-97-8 203-448-7 01-2119474691-32-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 15,00 - < 25,00

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.  
 Wash contaminated clothing before re-use.


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- 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 : Causes skin 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.

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**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 (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 : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion : carbon dioxide and carbon monoxide


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products

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.

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**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.

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**SECTION 7: Handling and storage**
**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.


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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

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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
Pentane	109-66-0	TWA	1.000 ppm 3.000 mg/m <sup>3</sup>	2006/15/EC
		TWA	600 ppm	GB EH40


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			1.800 mg/m <sup>3</sup>	
Butane	106-97-8	STEL	750 ppm 1.810 mg/m <sup>3</sup>	GB EH40
		TWA	600 ppm 1.450 mg/m <sup>3</sup>	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.  
 Discard gloves that show tears, pinholes, or signs of wear.

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.

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**SECTION 9: Physical and chemical properties**
**9.1 Information on basic physical and chemical properties**

Appearance : aerosol  
 Colour : colourless  
 Odour : solvent-like  
 Odour Threshold : No data available


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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	:	1,1 %(V)
Vapour pressure	:	8 hPa (20 °C)
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0,62 g/cm <sup>3</sup> (20 °C)
Solubility(ies)		
Water solubility	:	immiscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	> 200 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Oxidizing properties	:	No data available

**9.2 Other information**




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Self-ignition : not auto-flammable

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**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 : 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.

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**SECTION 11: Toxicological information**
**11.1 Information on toxicological effects**

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

**Acute toxicity**

Not classified based on available information.


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**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:**
**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.

**PENTANE NORMAL:**

Result: Slight, transient irritation

Result: Repeated exposure may cause skin dryness or cracking.

**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:**


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Result: Slight, transient irritation

**PENTANE NORMAL:**

Result: Slight, transient irritation

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

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

**BUTANE NORMAL:**

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

**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.

**PENTANE NORMAL:**

Assessment: May cause drowsiness or dizziness.

**STOT - repeated exposure**

Not classified based on available information.


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**Aspiration toxicity**

Not classified based on available information.

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

May be fatal if swallowed and enters airways.

**PENTANE NORMAL:**

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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**SECTION 12: Ecological information**
**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.

Pentane  
 Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,26 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
 Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 10,7 mg/l  
 Exposure time: 72 h

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



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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

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

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..

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## 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 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.  
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.

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## 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)


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**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  
 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**


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Environmentally hazardous : yes

**RID**

Environmentally hazardous : yes

**IMDG**

Marine pollutant : yes

**IATA (Passenger)**

Environmentally hazardous : yes

**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.

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 57). : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : 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	: This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.
AICS	Not in compliance with the inventory
ENCS	Not in compliance with the inventory
KECI	Not in compliance with the inventory
PICCS	Not in compliance with the inventory
IECSC	Not in compliance with the inventory
TCSI	Not in compliance with the inventory
TSCA	Not 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**

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### Further information

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### Full text of H-Statements


<b>H220</b>	Extremely flammable gas.
<b>H224</b>	Extremely flammable liquid and vapour.
<b>H225</b>	Highly flammable liquid and vapour.
<b>H280</b>	Contains gas under pressure; may explode if heated.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H315</b>	Causes skin irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H411</b>	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  
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"

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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-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