


**SAFETY DATA SHEET**

Revision Date: 03.03.2017

Print Date: 24.08.2018

SDS Number: 000000259010

Valvoline™ MOTOR START STARTING FLUID

Version: 2.0

752591

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™ MOTOR START  
STARTING FLUID

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

Recommended use : Fuels and fuel additives

**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.

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters  
airways.

Chronic aquatic toxicity, 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.

Supplemental Hazard Statements : EUH019 May form explosive peroxides.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P103 Read label before use.  
**Prevention:**  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P251 Do not pierce or burn, even after use.  
 P211 Do not spray on an open flame or other ignition source.  
 P261 Avoid breathing vapours.  
 P280 Wear protective gloves.  
 P273 Avoid release to the environment.  
 P264 Wash hands thoroughly after handling.  
**Response:**  
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
 P332 + P313 If skin irritation occurs: Get medical advice/attention.  
**Storage:**  
 P405 Store locked up.  
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
**Disposal:**  
 P501 Dispose of contents/ container to an



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approved waste disposal plant.

Hazardous components which must be listed on the label:

Diethyl ether  
 Naphtha (petroleum), hydrotreated light  
 2-Methylpentane  
 Pentane  
 n-Hexane

**2.3 Other hazards****Additional advice**

No information available.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Propane	74-98-6 200-827-9 01-2119486944-21-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 40,00 - < 50,00
Diethyl ether	60-29-7 200-467-2	Flam. Liq.1; H224 Acute Tox.4; H302 STOT SE3; H336	>= 40,00 - < 50,00
Naphtha (petroleum), hydrotreated light	265-151-9 01-2119475514-35-xxxx	Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 20,00 - < 25,00
2-Methylpentane	107-83-5 203-523-4	Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 10,00 - < 15,00
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	>= 5,00 - < 10,00
n-Hexane	110-54-3 203-777-6	Flam. Liq.2; H225 Repr.2; H361	>= 1,00 - < 2,50


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STOT SE3; H336  
 STOT RE2; H373  
 Asp. Tox.1; H304  
 Aquatic Chronic2;  
 H411  
 Skin Irrit.2; H315

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.  
 Symptoms of poisoning may appear several hours later.  
 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.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
 Remove contact lenses.  
 Protect unharmed eye.
- If swallowed : Obtain medical attention.  
 Do NOT induce vomiting.  
 Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.

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

- Symptoms : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
 stomach or intestinal upset (nausea, vomiting, diarrhea)  
 irritation (nose, throat, airways)  
 irregular heartbeat

Risks :


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Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.

May be fatal if swallowed and enters airways.

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 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.


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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.  
Suppress (knock down) gases/vapours/mists with a water spray jet.

**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**
**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.


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Dispose of rinse water in accordance with local and national regulations.

Container may be opened only under exhaust ventilation hood.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). No sparking tools should be used. 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
Diethyl ether	60-29-7	STEL	200 ppm 616 mg/m <sup>3</sup>	2000/39/EC
		TWA	100 ppm 308 mg/m <sup>3</sup>	2000/39/EC
		TWA	100 ppm 310 mg/m <sup>3</sup>	GB EH40
		STEL	200 ppm 620 mg/m <sup>3</sup>	GB EH40
Pentane	109-66-0	TWA	1.000 ppm 3.000 mg/m <sup>3</sup>	2006/15/EC


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		TWA	600 ppm 1.800 mg/m <sup>3</sup>	GB EH40
n-Hexane	110-54-3	TWA	20 ppm 72 mg/m <sup>3</sup>	2006/15/EC
		TWA	20 ppm 72 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 : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Hand protection

Remarks : Wear resistant gloves such as: Nitrile rubber

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

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 : liquid

Colour : light yellow




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Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	-44 °C
Flash point	:	-97 °C
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	36,0 %(V)
Lower explosion limit	:	0,8 %(V)
Vapour pressure	:	8.300 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
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**

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**

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  
halogens  
Oxidizing agents  
peroxides  
strong bases  
strong reducing agents  
Sulphur compounds

**10.6 Hazardous decomposition products**

Hazardous decomposition products : carbon dioxide and carbon monoxide  
Hydrocarbons

**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.

**Components:**

Propane

Acute inhalation toxicity : LC50 (Rat): 1.237 mg/l  
Exposure time: 2 h

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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:**

Diethyl ether

Acute oral toxicity : **LD50 (Rat, female): 1.200 mg/kg**

Acute inhalation toxicity : **LC50 (Rat): 32.000 mg/l**  
 Exposure time: **4 h**  
 Test atmosphere: **vapour**

**Components:**

Naphtha (petroleum), hydrotreated light

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**

Acute dermal toxicity : **LD50 (Rat): > 2.800 - 3.100 mg/kg**  
 Remarks: **Information given is based on data obtained from similar substances.**

**Components:**

2-Methylpentane

Acute inhalation toxicity : **LC50 (Rat): > 3125 ppm**  
 Exposure time: **4 h**  
 Test atmosphere: **vapour**  
 Assessment: **Not classified as acutely toxic by inhalation under GHS.**

**Components:**

Pentane

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**  
 Assessment: **No adverse effect has been observed in acute inhalation toxicity tests.**

**Components:**

n-Hexane

Acute oral toxicity : **LD50 (Rat, male and female): ca. 16 g/kg**

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Acute inhalation toxicity : LC50 (Rat, male): > 5000 ppm  
Exposure time: 24 h

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.000 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Remarks: May cause skin irritation and/or dermatitis.

**Components:**

Diethyl ether

Result: Irritating to skin.

Naphtha (petroleum), hydrotreated light

Result: Irritating to skin.

2-Methylpentane

Result: Irritating to skin.

Pentane

Result: Slight, transient irritation

Result: Repeated exposure may cause skin dryness or cracking.

n-Hexane

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., Causes serious eye irritation.

**Components:**

Diethyl ether

Result: Severely irritating to eyes

Naphtha (petroleum), hydrotreated light

Result: Slight, transient irritation

Pentane

Result: Slight, transient irritation

n-Hexane

Result: Slight, transient irritation


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**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.**

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**Components:**

n-Hexane

Reproductive toxicity - Assessment : **Suspected of damaging fertility., Some evidence of adverse effects on sexual function and fertility, based on animal experiments.**

**STOT - single exposure**

May cause drowsiness or dizziness.

**Components:**

Diethyl ether

Assessment: **May cause drowsiness or dizziness.**

Naphtha (petroleum), hydrotreated light

Assessment: **May cause drowsiness or dizziness.**

2-Methylpentane

Assessment: **May cause drowsiness or dizziness.**

Pentane

Assessment: **May cause drowsiness or dizziness.**

n-Hexane

Target Organs: **Central nervous system**Assessment: **May cause drowsiness or dizziness.**
**STOT - repeated exposure**

Not classified based on available information.

**Components:**

n-Hexane

Exposure routes: **Inhalation**Target Organs: **Nervous system**Assessment: **Causes damage to organs through prolonged or repeated exposure.**

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**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Product:**

May be fatal if swallowed and enters airways.

**Components:**

Naphtha (petroleum), hydrotreated light

May be fatal if swallowed and enters airways.

2-Methylpentane

May be fatal if swallowed and enters airways.

Pentane

May be fatal if swallowed and enters airways.

n-Hexane

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.

**SECTION 12: Ecological information****12.1 Toxicity****Components:**

Naphtha (petroleum), hydrotreated light

Toxicity to fish : **LL50 (Oncorhynchus mykiss (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 (Daphnia hyalina (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 (Pseudokirchneriella subcapitata (green algae)): 10 - 30 mg/l**  
End point: **Growth inhibition**  
Exposure time: **72 h**

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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: **Water flea (Daphnia magna)**  
 Test Type: **static test**  
 Test substance: **WAF**  
 Method: **OECD Test Guideline 211**

## Ecotoxicology Assessment

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

## 2-Methylpentane

## Ecotoxicology Assessment

Acute aquatic toxicity : **Acute aquatic toxicity Category 2**Chronic aquatic toxicity : **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 (Water flea (Daphnia magna)): > 1 - 10 mg/l**  
 Exposure time: **48 h**Toxicity to algae : **ErC50 (Pseudokirchneriella subcapitata (green algae)): 10,7 mg/l**  
 Exposure time: **72 h**

## n-Hexane

Toxicity to algae : **EL50 (Pseudokirchneriella subcapitata (green algae)): 9,29 mg/l**  
 Exposure time: **72 h**

## Ecotoxicology Assessment

Acute aquatic toxicity : **Toxic to aquatic life.**Chronic aquatic toxicity : **Toxic to aquatic life with long lasting effects.****12.2 Persistence and degradability****Components:**

Naphtha (petroleum), hydrotreated light

Biodegradability : Inoculum: **activated sludge**  
 Biodegradation: **98 %**  
 Exposure time: **28 d**

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Method: **OECD Test Guideline 301F**

Pentane

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

n-Hexane

Biodegradability : Remarks: **Expected to be biodegradable**

**12.3 Bioaccumulative potential****Components:**

Propane

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

Diethyl ether

Partition coefficient: n-octanol/water : log Pow: **0,89**

2-Methylpentane

Bioaccumulation : Bioconcentration factor (BCF): **100 - 408**

Partition coefficient: n-octanol/water : log Pow: **3,74**

Pentane

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

n-Hexane

Partition coefficient: n-octanol/water : log Pow: **3,90**

**12.4 Mobility in soil**

No data available


**12.5 Results of PBT and vPvB assessment**

Not relevant

**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

### SECTION 14: Transport information

#### 14.1 UN number

ADR: Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** UN1950  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** UN1950  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** UN1950  
 RID: Not dangerous goods

#### 14.2 UN proper shipping name


ADR: Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Aerosols, flammable  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Aerosols, flammable  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** AEROSOLS  
 RID: Not dangerous goods

#### 14.3 Transport hazard class(es)

ADR: Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** 2.1  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** 2.1  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** 2.1  
 RID: Not dangerous goods

#### 14.4 Packing group

ADR: Not dangerous goods

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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:**  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:**  
**INTERNATIONAL MARITIME DANGEROUS GOODS:**  
**RID:** Not dangerous goods

**14.5 Environmental hazards**

**ADR:** Not applicable  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not applicable  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not applicable  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not applicable  
**RID:** Not applicable

**14.6 Special precautions for user**

Not applicable

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**


Ship Type: Not applicable  
Hazard code(s): Not applicable  
Pollutant Category: Not applicable

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 - 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 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

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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
E2	ENVIRONMENTAL HAZARDS	200 t	500 t
P3a	FLAMMABLE AEROSOLS	150 t	500 t

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 611,5 g/l

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
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

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**SECTION 16: Other information**

**Further information**

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**Classification procedure:**

H222,	Extremely flammable aerosol.,	Calculation method
H229	Pressurised container: May burst if heated.	
H315	Causes skin irritation.	Calculation method
H336	May cause drowsiness or dizziness.	Calculation method
H304	May be fatal if swallowed and enters airways.	On basis of test data.
H411	Toxic to aquatic life with long lasting effects.	Calculation method

**Full text of H-Statements**

H220	Extremely flammable gas.
<b>H224</b>	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
<b>H280</b>	Contains gas under pressure; may explode if heated.
<b>H302</b>	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
<b>H315</b>	Causes skin irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H361</b>	Suspected of damaging fertility or the unborn child.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure if inhaled.
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


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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  
 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

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