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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 : Tectyl® STONE CHIPPING BLACK RUST PREVENTATIVE

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

Recommended use : Coatings

<p>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</p> <p>SDS@valvoline.com</p>	<p>1.4 Emergency telephone number 00-800-825-8654 / 001-859-202-3865, or contact your local emergency telephone number at 112</p> <p>Product Information +31 (0)78 654 3500 (in the Netherlands), or contact your local CSR contact person</p>
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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.
Eye irritation, Category 2	H319: Causes serious eye 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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Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements :

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
Prevention:	
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.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
Response:	
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
Disposal:	



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

Hazardous components which must be listed on the label:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Naphtha (petroleum), hydrotreated light

Butanone

Xylene

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. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0 927-510-4 01-2119475515-33-xxxx	Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 10,00 - < 15,00
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	>= 10,00 - < 15,00
Butanone	78-93-3 201-159-0 01-2119457290-43-xxxx	Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336	>= 5,00 - < 10,00
Xylene	1330-20-7 215-535-7 01-2119488216-32-xxxx	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 Eye Irrit.2; H319 STOT SE3; H335	>= 5,00 - < 10,00



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		STOT RE2; H373 Asp. Tox.1; H304	
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	920-750-0 01-2119473851-33-xxxx	Flam. Liq.2; H225 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 2,50 - < 5,00
Ethyl acetate	141-78-6 205-500-4 01-2119475103-46-xxxx	Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336	>= 2,50 - < 5,00
Cyclohexane	110-82-7 203-806-2	Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 2,50 - < 5,00
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	>= 1,00 - < 2,50
Hydrocarbons, C9, aromatics	64742-95-6 918-668-5	Flam. Liq.3; H226 STOT SE3; H336 STOT SE3; H335 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 1,00 - < 2,50
Substances with a workplace exposure limit :			
dimethyl ether	115-10-6 204-065-8 01-2119472128-37-0005	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 25,00 - < 40,00

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.


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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 : 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.
Causes serious eye irritation.
May cause drowsiness or dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

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

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


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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
Nitrogen oxides (NOx)
Sulphur oxides
Aldehydes
sulfur oxides
- carbon dioxide and carbon monoxide
Hydrocarbons
Aldehydes

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


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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.
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


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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 of exposure)	Control parameters	Basis
dimethyl ether	115-10-6	TWA	1.000 ppm 1.920 mg/m ³	2000/39/EC
		TWA	400 ppm 766 mg/m ³	GB EH40
		STEL	500 ppm 958 mg/m ³	GB EH40
Butanone	78-93-3	TWA	200 ppm 600 mg/m ³	2000/39/EC
		STEL	300 ppm 900 mg/m ³	2000/39/EC
		TWA	200 ppm 600 mg/m ³	GB EH40
		STEL	300 ppm 899 mg/m ³	GB EH40
Xylene	1330-20-7	STEL	100 ppm 441 mg/m ³	GB EH40
		TWA	50 ppm 220 mg/m ³	GB EH40
		TWA	50 ppm 221 mg/m ³	2000/39/EC
		STEL	100 ppm 442 mg/m ³	2000/39/EC
Ethyl acetate	141-78-6	TWA	200 ppm	GB EH40
		STEL	400 ppm	GB EH40
		STEL	400 ppm 1.468 mg/m ³	2017/164/EU
		TWA	200 ppm 734 mg/m ³	2017/164/EU



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Cyclohexane	110-82-7	TWA	200 ppm 700 mg/m ³	2006/15/EC
		TWA	100 ppm 350 mg/m ³	GB EH40
		STEL	300 ppm 1.050 mg/m ³	GB EH40

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
METHYL ETHYL KETONE	78-93-3	butan-2-one: 70 micromol per litre (Urine)	After shift	GB EH40 BAT
XYLENE	1330-20-7	methyl hippuric acid: 650 Millimoles per mole Creatinine (Urine)	After shift	GB EH40 BAT

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

dimethyl ether : End Use: **Workers**
 Exposure routes: **Inhalation**
 Potential health effects: **Long-term systemic effects**
 Value: **1894 mg/m³**
 End Use: **Consumers**
 Exposure routes: **Inhalation**
 Potential health effects: **Long-term systemic effects**
 Value: **471 mg/m³**

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

dimethyl ether : **Fresh water**
 Value: **0,155 mg/l**
Marine water
 Value: **0,016 mg/l**
Sewage treatment plant
 Value: **160 mg/l**
Fresh water sediment
 Value: **0,681 mg/kg**
Marine sediment
 Value: **0,069 mg/kg**
Soil
 Value: **0,045 mg/kg**

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

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Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Hand protection

Remarks : Nitrile rubber

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : aerosol

Colour : black

Odour : characteristic

Odour Threshold : No data available

pH : not determined

Melting point/freezing point : Not applicable

Boiling point/boiling range : ca. 77 °C

Flash point : -42 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper : 18,6 %(V)

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flammability limit

Lower explosion limit / Lower flammability limit : 0,6 %(V)

Vapour pressure : 5.200 hPa (20 °C)

Relative vapour density : No data available

Relative density : No data available

Density : ca. 0,81 g/cm³ (20 °C)

Solubility(ies)

Water solubility : insoluble

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

Flammability (liquids) : Static-accumulating flammable liquid.

Self-ignition : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

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Hazardous reactions : Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

None known.

10.5 Incompatible materials

Materials to avoid : alkalis
aluminum
aluminium hydride
Amines
Carbon monoxide
Copper
Copper alloys
halogens
lithium aluminum hydride
nitrates
Strong acids
strong alkalis
Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide and carbon monoxide
Nitrogen oxides (NOx)
Sulphur oxides
various hydrocarbons
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

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity : Acute toxicity estimate : > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist


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Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg
Method: Calculation method

Components:
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

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): > 23,3 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rat): > 2.800 - 3.100 mg/kg
Assessment: Not classified as acutely toxic by dermal absorption under GHS.
Remarks: Information given is based on data obtained from similar substances.

Components:
METHYL ETHYL KETONE:

Acute oral toxicity : LD50 (Rat): 2.300 - 3.500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

Components:
XYLENE:

Acute oral toxicity : LD50 (Rat): 3.523 - 8.600 mg/kg

Acute inhalation toxicity : LC50 (Rat): 6700 ppm
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 1.700 mg/kg

Components:
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 23,3 mg/l
Exposure time: 4 h


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Test atmosphere: vapour
 Method: OECD Test Guideline 403
 Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rat, male and female): > 2.800 - 3.100 mg/kg

Components:
ETHYL ACETATE:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC0 (Rat): > 6000 ppm
 Exposure time: 6 h
 Test atmosphere: vapour
 Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD50 (Rabbit): > 20.000 mg/kg

Components:
CYCLOHEXANE:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5540 ppm
 Exposure time: 4 h
 Test atmosphere: vapour
 Method: OECD Test Guideline 403
 Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rabbit): > 2,0 g/kg
 Method: OECD Test Guideline 402
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.

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

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absorption under GHS.

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

Components:**Hydrocarbons, C9, aromatics:**

Acute oral toxicity : LD50 (Rat, female): 3.492 mg/kg
LD50 (Rat, male): 6.984 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 6.193 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 3.160 mg/kg

Components:**DIMETHYL ETHER:**

Acute inhalation toxicity : LC50 (Mouse): 494,36 mg/l
Exposure time: 15 min
Test atmosphere: gas

LC50 (Mouse): 385,94 mg/l
Exposure time: 30 min
Test atmosphere: gas

LC50 (Rat): 164000 ppm
Exposure time: 4 h
Test atmosphere: gas

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:**

Species: Rabbit
Method: OECD Test Guideline 404
Result: Irritating to skin.
Remarks: Information given is based on data obtained from similar substances.

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

Result: Irritating to skin.

METHYL ETHYL KETONE:

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Result: **No skin irritation****XYLENE:**Result: **Irritating to skin.****Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:**Species: **Rabbit**Method: **OECD Test Guideline 404**Result: **Slight, transient irritation****ETHYL ACETATE:**Species: **Rabbit**Result: **Slight, transient irritation****CYCLOHEXANE:**Result: **Slight, transient irritation****Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:**Result: **Irritating to skin.****Hydrocarbons, C9, aromatics:**Species: **Rabbit**Method: **OECD Test Guideline 404**Result: **Slight, transient irritation****Serious eye damage/eye irritation**

Causes serious eye irritation.

Product:

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

Components:**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:**Result: **Slight, transient irritation**Remarks: **Information given is based on data obtained from similar substances.****Hydrocarbons, C6, isoalkanes, <5% n-hexane:**Result: **Slight, transient irritation****METHYL ETHYL KETONE:**Result: **Irritating to eyes.****XYLENE:**Result: **Irritating to eyes.****Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:**Species: **Rabbit**

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Result: Slight, transient irritation

ETHYL ACETATE:

Species: Rabbit

Result: Slight, transient irritation

CYCLOHEXANE:

Result: Slight, transient irritation

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

Result: Slight, transient irritation

Hydrocarbons, C9, aromatics:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Slight, transient irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:**

Test Type: Maximisation Test

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

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

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

ETHYL ACETATE:

Test Type: Maximisation Test

Hydrocarbons, C9, aromatics:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

DIMETHYL ETHER:

Remarks: Not applicable


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Germ cell mutagenicity

Not classified based on available information.

Components:
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

Genotoxicity in vitro : Test Type: **Ames test**
 Test species: **Salmonella typhimurium**
 Metabolic activation: **with and without metabolic activation**
 Method: **OECD Test Guideline 471**
 Result: **negative**
 Remarks: **Information given is based on data obtained from similar substances.**

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

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

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

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

Genotoxicity in vitro : Test Type: **Ames test**
 Metabolic activation: **with and without metabolic activation**
 Method: **OECD Test Guideline 471**
 Result: **negative**

: Method: **OECD Test Guideline 473**
 Result: **negative**

Genotoxicity in vivo : Test Type: **In vivo micronucleus test**
 Test species: **Mouse**
 Application Route: **Oral**
 Method: **OECD Test Guideline 474**
 Result: **negative**

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

ETHYL ACETATE:

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

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)**

Hydrocarbons, C9, aromatics:

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Genotoxicity in vitro : Test Type: **Chromosome aberration test in vitro**
Result: **negative**

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

DIMETHYL ETHER:

Genotoxicity in vitro : Test Type: **Ames test**
Result: **negative**

: Test Type: **Chromosome aberration test in vitro**
Result: **negative**

: Test Type: **In vitro mammalian cell gene mutation test**
Result: **negative**

: Test Type: **unscheduled DNA synthesis assay**
Result: **negative**

Genotoxicity in vivo : Test species: **Drosophila melanogaster (vinegar fly)**
Result: **negative**

Carcinogenicity

Not classified based on available information.

Components:**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:**

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

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

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

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

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

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

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

Hydrocarbons, C9, aromatics:

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

DIMETHYL ETHER:

Species: **Rat**

Application Route: **inhalation (vapour)**

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NOAEL: No observed adverse effect level: 47,106 mg/l
Result: negative

Reproductive toxicity

Not classified based on available information.

Components:**DIMETHYL ETHER:**

Effects on fertility : Application Route: inhalation (gas)
Result: Animal testing did not show any effects on fertility.

Effects on foetal development : Application Route: inhalation (vapour)
Method: OECD Test Guideline 414
Result: No teratogenic effects
GLP: yes

STOT - single exposure

May cause drowsiness or dizziness.

Components:**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:**

Exposure routes: Inhalation
Target Organs: Central nervous system
Assessment: May cause drowsiness or dizziness.

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

Assessment: May cause drowsiness or dizziness.

METHYL ETHYL KETONE:

Assessment: May cause drowsiness or dizziness.

XYLENE:

Assessment: May cause respiratory irritation.

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

Assessment: May cause drowsiness or dizziness.

ETHYL ACETATE:

Assessment: May cause drowsiness or dizziness.

CYCLOHEXANE:

Assessment: May cause drowsiness or dizziness.

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

Assessment: May cause drowsiness or dizziness.

Hydrocarbons, C9, aromatics:

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

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STOT - repeated exposure

Not classified based on available information.

Components:**XYLENE:**

Target Organs: Central nervous system, Liver, Kidney

Assessment: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity**Components:****DIMETHYL ETHER:**

Species: Rat

No observed adverse effect level: 47,106 g/m³

Application Route: inhalation (vapour)

Method: OECD Test Guideline 452

Aspiration toxicity

Not classified based on available information.

Components:**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:**

May be fatal if swallowed and enters airways.

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

May be fatal if swallowed and enters airways.

METHYL ETHYL KETONE:

May be harmful if swallowed and enters airways.

XYLENE:

May be fatal if swallowed and enters airways.

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

May be fatal if swallowed and enters airways.

CYCLOHEXANE:

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.

Hydrocarbons, C9, aromatics:

May be fatal if swallowed and enters airways.

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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.

Components:

METHYL ETHYL KETONE:

Remarks: **Central nervous system**

CYCLOHEXANE:

Remarks: **Central nervous system**

SECTION 12: Ecological information

12.1 Toxicity

Components:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOEC: 0,17 mg/l**
 Exposure time: **21 d**
 Species: **Daphnia magna (Water flea)**
 Test Type: **static test**
 Test substance: **WAF**
 Method: **OECD Test Guideline 211**
 Remarks: **Information given is based on data obtained from similar substances.**

Ecotoxicology Assessment

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

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.**

Butanone

Toxicity to fish : **LC50 (Pimephales promelas (fathead minnow)): 3.130 - 3.320 mg/l**
 Exposure time: **96 h**
 Test Type: **flow-through test**

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Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea))**: 4.025 - 6.440 mg/l
 Exposure time: 48 h
 Test Type: **static test**
 Remarks: **Intoxication**

Xylene

Toxicity to daphnia and other aquatic invertebrates : **LC50 (Daphnia magna (Water flea))**: > 100 - < 1.000 mg/l
 Exposure time: 24 h
 Test Type: **static test**

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Toxicity to fish : **LL50 (Oncorhynchus mykiss (rainbow trout))**: 3 - 10 mg/l
 Exposure time: 96 h
 Test Type: **semi-static test**
 Test substance: **WAF**
 Method: **OECD Test Guideline 203**

Toxicity to daphnia and other aquatic invertebrates : **EL50 (Daphnia magna (Water flea))**: 4,6 - 10 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
 Test Type: **static test**
 Method: **OECD Test Guideline 201**

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOEC**: 0,17 mg/l
 Exposure time: 21 d
 Species: **Daphnia magna (Water flea)**
 Test Type: **static test**
 Test substance: **WAF**
 Method: **OECD Test Guideline 211**

Ecotoxicology Assessment

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

Ethyl acetate

Toxicity to fish : **LC50 (Pimephales promelas (fathead minnow))**: 220 - 250 mg/l
 Exposure time: 96 h
 Test Type: **flow-through test**

Toxicity to daphnia and other : **LC50 (Water flea (Daphnia cucullata))**: 154 mg/l

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aquatic invertebrates	Exposure time: 48 h Test Type: static test
Toxicity to algae	: NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 2,4 mg/l Exposure time: 21 d Species: Daphnia (water flea) Test Type: semi-static test Method: OECD Test Guideline 211

Cyclohexane

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 4,53 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0,9 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae	: EbC50 (Pseudokirchneriella subcapitata (green algae)): 3,4 mg/l End point: Biomass Exposure time: 72 h ErC50 (Pseudokirchneriella subcapitata (green algae)): > 4,425 mg/l End point: Growth inhibition Exposure time: 72 h

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

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

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Toxicity to algae : **EL50 (Pseudokirchneriella subcapitata (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: **Daphnia magna (Water flea)**
 Test Type: **static test**
 Test substance: **WAF**
 Method: **OECD Test Guideline 211**

Hydrocarbons, C9, aromatics

Toxicity to fish : **LL50 (Oncorhynchus mykiss (rainbow trout))**: 9,2 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 : **LL50 (Daphnia magna (Water flea))**: 3,2 mg/l
 Exposure time: **48 h**
 Test Type: **static test**
 Test substance: **WAF**
 Method: **OECD Test Guideline 202**

Toxicity to algae : **EC50 (Pseudokirchneriella subcapitata (green algae))**: 2,9 mg/l
 End point: **Growth inhibition**
 Exposure time: **72 h**
 Test Type: **static test**
 Test substance: **WAF**
 Method: **OECD Test Guideline 201**

NOEL (Pseudokirchneriella subcapitata (green algae)): 1 mg/l
 End point: **Growth inhibition**
 Exposure time: **72 h**
 Test Type: **static test**
 Test substance: **WAF**
 Method: **OECD Test Guideline 201**

dimethyl ether

Toxicity to fish : **LC50 (Poecilia reticulata (guppy))**: > 4,1 g/l
 Exposure time: **96 h**
 Test Type: **semi-static test**
 Remarks: **No toxicity at the limit of solubility**

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Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna Straus): > 4,4 g/l**
 Exposure time: **48 h**
 Test Type: **static test**
 Remarks: **No toxicity at the limit of solubility**

Toxicity to algae : **EC50 : 155 mg/l**
 Exposure time: **96 h**
 Remarks: **QSAR**

Toxicity to bacteria : **EC10 (Pseudomonas putida): > 1.600 mg/l**

12.2 Persistence and degradability**Components:**

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Biodegradability : Result: **Readily biodegradable.**
 Biodegradation: **98 %**
 Exposure time: **28 d**
 Method: **OECD Test Guideline 301F**
 Remarks: **Information given is based on data obtained from similar substances.**

Xylene

Biodegradability : Result: **Readily biodegradable.**
 Physico-chemical removability : Remarks: **The product evaporates readily.**

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Biodegradability : Inoculum: **activated sludge**
 Biodegradation: **98 %**
 Exposure time: **28 d**
 Method: **OECD Test Guideline 301F**
 Remarks: **Information given is based on data obtained from similar substances.**

Ethyl acetate

Biodegradability : Result: **Readily biodegradable.**

Cyclohexane

Biodegradability : Result: **Readily biodegradable.**
 Biodegradation: **77 %**
 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 %**

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Exposure time: 28 d
Method: OECD Test Guideline 301F

dimethyl ether

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 2 mg/l
Result: Not readily biodegradable.
Biodegradation: 5 %
Method: OECD Test Guideline 301D
Remarks: According to the results of tests of biodegradability this product is not readily biodegradable.

12.3 Bioaccumulative potential**Components:**

Butanone

Partition coefficient: n-octanol/water : log Pow: 0,29

Xylene

Partition coefficient: n-octanol/water : log Pow: 3,16

Ethyl acetate

Bioaccumulation : Species: Green algae (*Chlorella fusca vacuolata*)
Exposure time: 24 h
Concentration: 0,05 mg/l
Bioconcentration factor (BCF): 13.500
Method: Static

Partition coefficient: n-octanol/water : log Pow: 0,68

Cyclohexane

Partition coefficient: n-octanol/water : log Pow: 3,44

dimethyl ether

Partition coefficient: n-octanol/water : log Pow: 0,10

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

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to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

Components:

dimethyl ether

Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..

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.

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
- IMDG : UN 1950
- IATA : UN 1950

14.2 UN proper shipping name


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

IATA (Passenger)
Packing instruction (passenger aircraft) : 203

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

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

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

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

Not applicable for product as supplied.

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: Regulatory information

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

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

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

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, : Cyclohexane

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preparations and articles (Annex XVII)

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

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

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

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SECTION 16: Other information

Further information

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Full text of H-Statements

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (+31 (0)78 654 3500).

Sources of key data used to compile the Safety Data Sheet
 Valvoline internal data including own and sponsored test reports
 The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).


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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