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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 : Durablend™ 2T  
2 CYCLE SYNTHETIC BLEND MOTOR OIL

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

Recommended use : Engine, gear & lubricating oil.

<p><b>1.3 Details of the supplier of the safety data sheet</b>          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><b>1.4 Emergency telephone number</b>          00-800-825-8654 / 001-859-202-3865, or contact          your local emergency telephone number at 112</p> <p><b>Product Information</b>          +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)**

Not a hazardous substance or mixture.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**Additional Labelling:**

- EUH210 Safety data sheet available on request.
- EUH208 Contains Calcium alkyl phenate. May produce an allergic reaction.

**2.3 Other hazards**

**Additional advice**

No information available.


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**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, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	01-2119456620-43-xxxx	Asp. Tox.1; H304	>= 15,00 - < 25,00
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8 265-158-7 01-2119487077-29-xxxx	Asp. Tox.1; H304	>= 5,00 - < 10,00
Polyolefin polyamine succinide		Aquatic Chronic4; H413	>= 1,00 - < 2,50

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.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
If on skin, rinse well with water.  
First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.  
Wash contaminated clothing before re-use.  
If on clothes, remove clothes.
- 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.


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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 : 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)  
Headache  
Dizziness

Risks : Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

**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  
Carbon dioxide (CO<sub>2</sub>)  
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 : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.  
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)

**5.3 Advice for firefighters**

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Use a water spray to cool fully closed containers.

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**SECTION 6: Accidental release measures**
**6.1 Personal precautions, protective equipment and emergency procedures**

- Personal precautions : Remove all sources of ignition.  
Use personal protective equipment.  
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.

**6.3 Methods and material for containment and cleaning up**

- Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.


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**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 : Avoid formation of aerosol.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 Do not breathe vapours/dust.  
 Do not smoke.  
 Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
 Container hazardous when empty.  
 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 : No sparking tools should be used. Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : Wash hands before breaks and at the end of workday.

**7.2 Conditions for safe storage, including any incompatibilities**

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. 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**


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**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**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 : Nitrile rubber butyl-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  
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.

---

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

Appearance : liquid

Colour : amber

Odour : oily

Odour Threshold : No data available

pH :  
Not applicable

Pour point : < -36 °C

Boiling point/boiling range : No data available

Flash point : 90 °C


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Method: Pensky-Martens closed cup

Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	ca. 0,86 g/cm <sup>3</sup> (15 °C)
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	ca. 58 mm <sup>2</sup> /s (40 °C)
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 : Heat, flames and sparks.  
excessive heat


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**10.5 Incompatible materials**

Materials to avoid : Bases  
Strong oxidizing agents

**10.6 Hazardous decomposition products**

Hazardous decomposition products : carbon dioxide and carbon monoxide  
Hydrocarbons  
Nitrogen oxides (NOx)

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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.

**Components:**
**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 8 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Result: Repeated exposure may cause skin dryness or cracking.

Remarks: May cause skin irritation in susceptible persons.

**Components:**
**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**

Result: No skin irritation

**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**




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Result: **Slight, transient irritation**
**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Unlikely to cause eye irritation or injury.

**Components:**
**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**
Result: **Slight, transient irritation**
**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**
Result: **Slight, transient irritation**
**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Product:**

Remarks: May cause allergic skin reaction.

**Components:**
**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:**
Assessment: **Did not cause sensitisation on laboratory animals.**Method: **OECD Test Guideline 406**
**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Product:**

No aspiration toxicity classification

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**Components:****Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics:****May be fatal if swallowed and enters airways.****HYDROTREATED LIGHT PARAFFINIC DISTILLATE:****May be fatal if swallowed and enters airways.****Further information****Product:**

Remarks: No data available

---

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

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics

**Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l**  
Exposure time: 96 h**Toxicity to daphnia and other aquatic invertebrates : EL50 (Water flea (Daphnia magna)): > 1.000 mg/l**  
Exposure time: 48 h**Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l**  
Exposure time: 72 hPolyolefin polyamine succimide  
Ecotoxicology Assessment**Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.****12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**


No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

Not relevant

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## 12.6 Other adverse effects

**Product:**

Additional ecological information : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
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

**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

#### 14.2 UN proper shipping name

**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods


**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

#### 14.3 Transport hazard class(es)

**ADN:** Not dangerous goods

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

#### 14.4 Packing group

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

#### 14.5 Environmental hazards

**ADN:** Not applicable  
**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.

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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 : Not applicable

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(Annex XIV)

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

**The components of this product are reported in the following inventories:**

- DSL : All components of this product are on the Canadian DSL
- AICS On the inventory, or in compliance with the inventory
- ENCS Not in compliance with the inventory
- KECI On the inventory, or in compliance with the inventory
- PICCS On the inventory, or in compliance with the inventory
- IECSC Not in compliance with the inventory
- TSCA On TSCA Inventory

**Inventories**

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

**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


- H304                                    May be fatal if swallowed and enters airways.  
H413                                    May cause long lasting harmful effects to aquatic life.

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"
- 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

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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.  
 ADN: 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