SAFETY DATA SHEET
Signature Series Fuel-Efficient Synthetic Automatic Transmission Fluid


1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>Signature Series Fuel-Efficient Synthetic Automatic Transmission Fluid</td>
</tr>
<tr>
<td>Product number</td>
<td>ATL</td>
</tr>
</tbody>
</table>

Recommended use of the chemical and restrictions on use

| Application | Transmission fluid. |
| Uses advised against | No specific uses advised against are identified. |

Details of the supplier of the safety data sheet

| Supplier | AMSOIL INC.  
Bordner, Ladner, Gervais  
Scotia Plaza, 40 King St W  
Toronto, ON, Canada M5H 3Y4  
T: +1 416-367-6547 |
| Manufacturer | AMSOIL INC.  
One AMSOIL Center,  
Superior, WI 54880, USA.  
T: +1 715-392-7101  
compliance@amsoil.com |

Emergency telephone number

| Emergency telephone | CHEMTREC: Within USA and Canada: 1-800-424-9300  
Outside the USA and Canada: +1 703-741-5970  
(collect calls accepted) 24/7 |

2. Hazard(s) identification

Classification of the substance or mixture

| OSHA/WHMIS Regulatory Status | This Product is not Hazardous under the OSHA Hazard Communication Standard and according to the hazard criteria of the Hazardous Product Regulations. |
| Physical hazards | Not Classified |
| Health hazards | Not Classified |
| Environmental hazards | Aquatic Acute 3 - H402 Aquatic Chronic 3 - H412 |
| Label elements |  |
| Hazard statements | H412 Harmful to aquatic life with long lasting effects. |
| Precautionary statements | P273 Avoid release to the environment.  
P501 Dispose of contents/ container in accordance with national regulations. |

Other hazards

This product does not contain any substances classified as PBT or vPvB.
# Signature Series Fuel-Efficient Synthetic Automatic Transmission Fluid

## 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixtures</th>
<th>50 - 100%</th>
<th>1 - &lt;2.5%</th>
<th>0.5 - &lt;1%</th>
<th>0.25 - &lt;0.5%</th>
<th>0.25 - &lt;0.5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>Asp. Tox. 1 - H304</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>Aquatic Chronic 2 - H411</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>Skin Sens. 1B - H317</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C14-18 alpha-olefin epoxide, reaction products with boric acid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>Skin Sens. 1B - H317</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzene, polypropene derivatives, sulfonated, calcium salts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>Eye Irrit. 2A - H319, Skin Sens. 1 - H317</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>Skin Sens. 1B - H317, Aquatic Chronic 3 - H412</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Signature Series Fuel-Efficient Synthetic Automatic Transmission Fluid

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>M Factor (Acute)</th>
<th>M Factor (Chronic)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-(tert-Dodecylthio)propan-2-ol</td>
<td>67124-09-8</td>
<td>1</td>
<td>1</td>
<td>Skin Sens. 1 - H317, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410</td>
</tr>
<tr>
<td>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol</td>
<td>1218787-32-6</td>
<td>10</td>
<td>1</td>
<td>Acute Tox. 4 - H302, Skins Corr. 1C - H314, Eye Dam. 1 - H318, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410</td>
</tr>
<tr>
<td>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</td>
<td>95-38-5</td>
<td>10</td>
<td>1</td>
<td>Acute Tox. 4 - H302, Skins Corr. 1C - H314, Eye Dam. 1 - H318, STOT RE 2 - H373, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td></td>
<td></td>
<td>Flam. Liq. 3 - H226, Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315, Eye Irrit. 2A - H319, STOT SE 3 - H335, STOT RE 2 - H373, Asp. Tox. 1 - H304</td>
</tr>
</tbody>
</table>
Signature Series Fuel-Efficient Synthetic Automatic Transmission Fluid

<table>
<thead>
<tr>
<th>Ethylbenzene</th>
<th>&lt;0.025%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 100-41-4</td>
<td></td>
</tr>
</tbody>
</table>

Classification
- Flam. Liq. 2 - H225
- Acute Tox. 4 - H332
- STOT RE 2 - H373
- Asp. Tox. 1 - H304
- Aquatic Chronic 3 - H412

The full text for all hazard statements is displayed in Section 16.

Composition comments
The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200.

4. First-aid measures

Description of first aid measures

General information
Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

Inhalation
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Ingestion
Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Skin Contact
Remove affected person from source of contamination. Rinse immediately with plenty of water.

Eye contact
Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.

Protection of first aiders
First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information
See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion
Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

Skin contact
Prolonged contact may cause dryness of the skin.

Eye contact
May cause temporary eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

Specific treatments
No special treatment required.

5. Fire-fighting measures

Extinguishing media
The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
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Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards
Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products
Thermal decomposition or combustion products may include the following substances:
Harmful gases or vapors.

Advice for firefighters

Protective actions during firefighting
Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter’s clothing including helmets, protective boots and gloves, that provides a basic level of protection during chemical incidents is defined by the Canada Occupational Health and Safety Regulations, by provincial guidelines on occupational health and safety or by NFPA standards if applicable.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Use protective equipment appropriate for surrounding materials.

Environmental precautions

Environmental precautions
Harmful to aquatic life with long lasting effects. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up
Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Reuse or recycle products wherever possible. Absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

Reference to other sections
For personal protection, see Section 8. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions
Read and follow manufacturer’s recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid contact with used product. Do not reuse empty containers. Avoid the formation of mists.

Advice on general occupational hygiene
Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

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Conditions for safe storage, including any incompatibilities

Storage precautions
Store away from incompatible materials (see Section 10). Keep container tightly closed, in a cool, well ventilated place. Protect containers from damage.

Storage class
Chemical storage.

Specific end use(s)
The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Xylene
Long-term exposure limit (8-hour TWA): OSHA 100 ppm 435 mg/m³
Long-term exposure limit (8-hour TWA): ACGIH 100 ppm 434 mg/m³
Short-term exposure limit (15-minute): ACGIH 150 ppm 651 mg/m³

Ethylbenzene
Long-term exposure limit (8-hour TWA): OSHA 100 ppm 435 mg/m³
Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 87 mg/m³

OSHA = Occupational Safety and Health Administration.
ACGIH = American Conference of Governmental Industrial Hygienists.
A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.
A4 = Not Classifiable as a Human Carcinogen.

Immediate danger to life and health

800 ppm

Exposure controls

Appropriate engineering controls
Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133 and/or the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.6), and any relevant provincial regulation relating to health and safety at work. The following protection should be worn: Chemical splash goggles.

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and/or the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.9), and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
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Other skin and body protection: Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures: Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Respiratory protection: Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure controls: Keep container tightly sealed when not in use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Red.</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild hydrocarbon.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>224°C Cleveland open cup. [ASTM D 92]</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Upper/lower flammability or</td>
<td>Not available.</td>
</tr>
<tr>
<td>explosive limits</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.8338</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Not known.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>30.8 cSt @ 40°C</td>
</tr>
<tr>
<td></td>
<td>6.3 cSt @ 100°C</td>
</tr>
<tr>
<td>[ASTM D 445]</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not considered to be explosive.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Does not meet the criteria for classification as oxidizing.</td>
</tr>
<tr>
<td>Fire point</td>
<td>244°C Cleveland open cup. [ASTM D 92]</td>
</tr>
<tr>
<td>Pour point</td>
<td>-65°C [ASTM D 97]</td>
</tr>
</tbody>
</table>
## 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>See the other subsections of this section for further details.</td>
</tr>
<tr>
<td>Stability</td>
<td>Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>No potentially hazardous reactions known.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>There are no known conditions that are likely to result in a hazardous situation.</td>
</tr>
<tr>
<td>Materials to avoid</td>
<td>No specific material or group of materials is likely to react with the product to produce a hazardous situation.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.</td>
</tr>
</tbody>
</table>

## 11. Toxicological information

### Information on toxicological effects

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicological effects</td>
<td>Not regarded as a health hazard under current legislation.</td>
</tr>
<tr>
<td>Acute toxicity - oral</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Acute toxicity - dermal</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Acute toxicity - inhalation</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Animal data</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Genotoxicity - in vitro</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>IARC carcinogenicity</td>
<td>None of the ingredients are listed or exempt.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Reproductive toxicity - fertility</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Reproductive toxicity - development</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td></td>
</tr>
</tbody>
</table>
**Signature Series Fuel-Efficient Synthetic Automatic Transmission Fluid**

**STOT - single exposure**  
Not classified as a specific target organ toxicant after a single exposure.

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure**  
Not classified as a specific target organ toxicant after repeated exposure.

**Aspiration hazard**  
Based on available data the classification criteria are not met.

**General information**  
No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**  
Prolonged inhalation of high concentrations may damage respiratory system.

**Ingestion**  
Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

**Skin Contact**  
Prolonged contact may cause dryness of the skin.

**Eye contact**  
May cause temporary eye irritation.

**Route of exposure**  
Ingestion Inhalation Skin and/or eye contact

**Target Organs**  
No specific target organs known.

**Medical considerations**  
Skin disorders and allergies.

**Toxicological information on ingredients.**

*Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated*

**Acute toxicity - oral**

| Notes (oral LD₅₀) | LD₅₀ >5000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met. |

**Acute toxicity - dermal**

| Notes (dermal LD₅₀) | LD₅₀ >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met. |

**Acute toxicity - inhalation**

| Notes (inhalation LC₅₀) | LC₅₀ >5.2 mg/l, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met. |

**Skin corrosion/irritation**

| Animal data | Dose: 0.5 mL, 24 hours, Rabbit Erythema/eschar score: No erythema (0). Edema score: No oedema (0). Primary dermal irritation index: 0.5 REACH dossier information. Based on available data the classification criteria are not met. |

**Serious eye damage/irritation**

| Serious eye damage/irritation | Dose: 0.1 mL, 72 hours, Rabbit Not irritating. REACH dossier information. Based on available data the classification criteria are not met. |

**Skin sensitization**

| Skin sensitization | Guinea pig maximization test (GPMT) - Guinea pig: Not sensitizing. REACH dossier information. Based on available data the classification criteria are not met. |

**Germ cell mutagenicity**

| Genotoxicity - in vitro | Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met. |
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Genotoxicity - *in vivo*  
Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity  
Reproductive toxicity - fertility  
One-generation study - NOAEL 1000 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard  
Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

12. Ecological Information

Toxicity  
Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

**Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated**

Toxicity  
Based on available data the classification criteria are not met. Aquatic toxicity is unlikely to occur.

Acute aquatic toxicity  
Acute toxicity - fish  
$LL_{50}$, 96 hours: $>$1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates  
$EL_{50}$, 48 hours: $>$1000 mg/l, Daphnia magna

Acute toxicity - aquatic plants  
$EL_{50}$, 72 hours: $>$1000 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms  
NOEC, 28 days: 2 mg/l, Activated sludge

Chronic aquatic toxicity  
Chronic toxicity - aquatic invertebrates  
NOELR, 21 days: 125 mg/l, Daphnia magna

Persistence and degradability  
The degradability of the product is not known.

Ecological information on ingredients.

**Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated**

Persistence and degradability  
Not readily biodegradable.

Biodegradation  
Water - Degradation 2%: 28 days

Bioaccumulative potential  
Bio-Accumulative Potential  
No data available on bioaccumulation.

Partition coefficient  
Not available.
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**Partition coefficient**  
log Pow: >6.5

**Mobility in soil**  
No data available.

**Ecological information on ingredients.**

Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated

**Mobility**  
The product is insoluble in water.

**Surface tension**  
27-29 mN/m @ 20°C

**Other adverse effects**  
None known.

### 13. Disposal considerations

**Waste treatment methods**

**General information**  
The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

**Disposal methods**  
Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

### 14. Transport information

**General**  
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT, TDG).

**UN Number**  
Not applicable.

**UN proper shipping name**  
Not applicable.

**Transport hazard class(es)**

**Transport labels**  
No transport warning sign required.

**Packing group**  
Not applicable.

**Environmental hazards**

**Environmentally Hazardous Substance**  
No.

**Special precautions for user**  
Not applicable.

**DOT TIH Zone**  
Not applicable.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code. 

Not applicable.

15. Regulatory information

Regulatory References

US Federal Regulations
SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
The following ingredients are listed or exempt:

- **Xylene**
  - Final CERCLA RQ: 100(45.4) pounds (Kilograms)

- **Ethylbenzene**
  - Final CERCLA RQ: 1000(454) pounds (Kilograms)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed or exempt.

SARA 313 Emission Reporting
The following ingredients are listed or exempt:

- **Xylene**
  - 0.1 %
  - 1.0 %

- **Ethylbenzene**
  - 0.1 %

- **Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated**
  - 1.0 %

CAA Accidental Release Prevention
None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories
None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals
None of the ingredients are listed or exempt.

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
The following ingredients are listed or exempt:

- **Ethylbenzene**
  - Known to the State of California to cause cancer.

California Air Toxics "Hot Spots" (A-I)
The following ingredients are listed or exempt:

- **Xylene**
- **Ethylbenzene**
Signature Series Fuel-Efficient Synthetic Automatic Transmission Fluid

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances
The following ingredients are listed or exempt:
Xylene
Ethylbenzene

Massachusetts "Right To Know" List
The following ingredients are listed or exempt:
Xylene
Ethylbenzene
Hydrogenated base oil
Dibutyl phosphonate

Rhode Island "Right To Know" List
The following ingredients are listed or exempt:
Xylene
Ethylbenzene

Minnesota "Right To Know" List
The following ingredients are listed or exempt:
Xylene
Ethylbenzene

New Jersey "Right To Know" List
The following ingredients are listed or exempt:
Xylene
Ethylbenzene

Pennsylvania "Right To Know" List
The following ingredients are listed or exempt:
Xylene
Ethylbenzene
Dibutyl phosphonate

Inventories
Canada - DSL/NDSL
All the ingredients are listed or exempt.

US - TSCA
All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
None of the ingredients are listed or exempt.

16. Other information
Signature Series Fuel-Efficient Synthetic Automatic Transmission Fluid

**Abbreviations and acronyms used in the safety data sheet**

C.A.S. = Chemical Abstracts Service; E.C. No = European Commission number; GHS = Globally Harmonised System; OSHA = Occupational Safety and Health Administration; WHMIS = Workplace Hazardous Materials Information System; DOT = Department of Transport; TDG = Transport of Dangerous Goods Regulations; IMDG = International Maritime Dangerous Goods; IATA = International Air Transport Association; SARA = Superfund Amendments and Reauthorization Act; CERCLA = Comprehensive Environmental; EPCRA = Emergency Planning and Community Right-to-Know Act; TSCA = Toxic Substances Control Act; LD/LC/EC = Lethal Dose/Lethal Concentration/Effect Concentration for 50% of population; NOEC = No Overall Effect Concentration; NOEL = No Overall Effect Level; REACH = Registration, Evaluation, Authorisation & Restriction of Chemicals; STOT-RE = Single Target Organ Toxicity - Repeat Exposure; STOT-SE = Specific Target Organ Toxicity - Single Exposure; PBT = Persistent, Bioaccumulative, Toxic; vPvB = Very Persistent, Very Bioaccumulative.

**Key literature references and sources for data**


**Training advice**

Read and follow manufacturer's recommendations. Only trained personnel should use this material.

**Revision comments**

This is the first issue.

**Revision date**

2/19/2018

**SDS No.**

7024

**Hazard statements in full**

H225 Highly flammable liquid and vapor.
H226 Flammable liquid and vapor.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure.
H373 May cause damage to organs (Central nervous system, Liver, Kidneys) through prolonged or repeated exposure.
H373 May cause damage to organs (Gastro-intestinal tract, Thymus) through prolonged or repeated exposure if swallowed.
H400 Very toxic to aquatic life.
H402 Harmful to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.