SAFETY DATA SHEET
Torque-Drive® Synthetic Automatic Transmission Fluid

1. Identification

Product identifier
Product name Torque-Drive® Synthetic Automatic Transmission Fluid
Product number ATD

Recommended use of the chemical and restrictions on use
Application Transmission fluid.
Uses advised against Avoid the formation of mists.

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.
# Torque-Drive® Synthetic Automatic Transmission Fluid

## 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixtures</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated</td>
<td>50 - 100%</td>
</tr>
<tr>
<td>CAS number: 68037-01-4</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Asp. Tox. 1 - H304</td>
<td></td>
</tr>
<tr>
<td>Hydrogenated base oil</td>
<td>2.5 - &lt;5%</td>
</tr>
<tr>
<td>CAS number: 8042-47-5</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Asp. Tox. 1 - H304</td>
<td></td>
</tr>
<tr>
<td>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy derivs., C10-rich</td>
<td>1 - &lt;2.5%</td>
</tr>
<tr>
<td>CAS number: 398141-87-2</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 2 - H411</td>
<td></td>
</tr>
<tr>
<td>Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.</td>
<td>0.5 - &lt;1%</td>
</tr>
<tr>
<td>CAS number: —</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Skin Sens. 1B - H317</td>
<td></td>
</tr>
<tr>
<td>C14-18 alpha-olefin epoxide, reaction products with boric acid</td>
<td>0.25 - &lt;0.5%</td>
</tr>
<tr>
<td>CAS number: —</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Skin Sens. 1B - H317</td>
<td></td>
</tr>
<tr>
<td>1,2-Propanediol, 3-amino-, N,N-dicoco alkyl derivs.</td>
<td>0.25 - &lt;0.5%</td>
</tr>
<tr>
<td>CAS number: —</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Skin Sens. 1B - H317</td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 3 - H412</td>
<td></td>
</tr>
</tbody>
</table>
### Torque-Drive® Synthetic Automatic Transmission Fluid

<table>
<thead>
<tr>
<th>Compound</th>
<th>Concentration</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-((tert-Dodecythio)propan-2-ol</td>
<td>0.25 - &lt;0.5%</td>
<td></td>
</tr>
<tr>
<td>CAS number: 67124-09-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M factor (Acute) = 1  M factor (Chronic) = 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Sens. 1 - H317</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Acute 1 - H400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 1 - H410</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Benzene, polypropene derivatives, sulfonated, calcium salts</strong></td>
<td>0.25 - &lt;0.5%</td>
<td></td>
</tr>
<tr>
<td>CAS number: 75975-85-8</td>
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<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2A - H319</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Sens. 1 - H317</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol</strong></td>
<td>0.025 - &lt;0.25%</td>
<td></td>
</tr>
<tr>
<td>CAS number: 1218787-32-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M factor (Acute) = 10  M factor (Chronic) = 1</td>
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<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H302</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Corr. 1C - H314</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye Dam. 1 - H318</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Acute 1 - H400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 1 - H410</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</strong></td>
<td>&lt;0.025%</td>
<td></td>
</tr>
<tr>
<td>CAS number: 95-38-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M factor (Acute) = 10  M factor (Chronic) = 1</td>
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<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H302</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Corr. 1C - H314</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye Dam. 1 - H318</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STOT RE 2 - H373</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Acute 1 - H400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 1 - H410</td>
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<td></td>
</tr>
</tbody>
</table>
Torque-Drive® Synthetic Automatic Transmission Fluid

### Xyene

**CAS number:** 1330-20-7

<0.025%

<table>
<thead>
<tr>
<th>Classification</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 3 - H226</td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H312</td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H332</td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2A - H319</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H335</td>
<td></td>
</tr>
<tr>
<td>STOT RE 2 - H373</td>
<td></td>
</tr>
<tr>
<td>Asp. Tox. 1 - H304</td>
<td></td>
</tr>
</tbody>
</table>

**Classification**

#### Ethylbenzene

**CAS number:** 100-41-4

<0.025%

<table>
<thead>
<tr>
<th>Classification</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 2 - H225</td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H332</td>
<td></td>
</tr>
<tr>
<td>STOT RE 2 - H373</td>
<td></td>
</tr>
<tr>
<td>Asp. Tox. 1 - H304</td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 3 - H412</td>
<td></td>
</tr>
</tbody>
</table>

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

Rinse with 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.
Torque-Drive® Synthetic Automatic Transmission Fluid

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

Suitable 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.

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. 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. Clean contaminated objects and areas thoroughly, observing environmental regulations. Dispose of contents/container in accordance with national regulations.
Torque-Drive® Synthetic Automatic Transmission Fluid

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.

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

Comments
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
A4

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
A3

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.

Ethylbenzene (CAS: 100-41-4)
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.
Torque-Drive® Synthetic Automatic Transmission Fluid

**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.

**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.

**Environmental exposure controls**
Dangerous for the environment.

### 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td><strong>Color</strong></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
</tr>
<tr>
<td><strong>pH</strong></td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
</tr>
<tr>
<td><strong>Initial boiling point and range</strong></td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
</tr>
</tbody>
</table>
Torque-Drive® Synthetic Automatic Transmission Fluid

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<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>37.1 cSt @ 40°C</td>
</tr>
<tr>
<td></td>
<td>7.6 cSt @ 100°C [ASTM D 445]</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>242°C Cleveland open cup. [ASTM D 92]</td>
</tr>
<tr>
<td>Pour point</td>
<td>-55°C [ASTM D 97]</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

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

11. Toxicological information

<table>
<thead>
<tr>
<th>Toxicological effects</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - oral Notes</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>(oral LD₅₀)</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity - dermal Notes</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>(dermal LD₅₀)</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity - inhalation Notes (Inhalation LC₅₀)</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></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>
</tbody>
</table>
Torque-Drive® Synthetic Automatic Transmission Fluid

Skin sensitization
Based on available data the classification criteria are not met.

Germ cell mutagenicity
Based on available data the classification criteria are not met.

Genotoxicity - in vitro
Based on available data the classification criteria are not met.

Carcinogenicity
Based on available data the classification criteria are not met.

IARC carcinogenicity
None of the ingredients are listed or exempt.

Reproductive toxicity
Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure
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
**Torque-Drive® Synthetic Automatic Transmission Fluid**

### 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.

### 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.

### Hydrogenated base oil

#### 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, Rabbit. REACH dossier information. Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation
**Notes (inhalation LC₅₀)**
LD₅₀ >5 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). REACH dossier information. Based on available data the classification criteria are not met.

### Skin sensitization
**Skin sensitization**
Buehler test - 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.

### Genotoxicity - in vivo
**Chromosome aberration**: Negative. REACH dossier information. Based on available data the classification criteria are not met.
Torque-Drive® Synthetic Automatic Transmission Fluid

Carcinogenicity
Carcinogenicity

NOAEL >1200 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity
Reproductive toxicity -

Screening - NOAEL >1000 mg/kg/day, Dermal, Rat P REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: >1000 mg/kg/day, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL >20000 ppm, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard

Aspiration hazard if swallowed.

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 LL₅₀, 96 hours: >1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EL₅₀, 48 hours: >1000 mg/l, Daphnia magna

Acute toxicity - aquatic plants EL₅₀, 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

Hydrogenated base oil

Toxicity

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

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hours: >100 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates LL₅₀, 48 hours: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOEL, 72 hours: >100 mg/l, Pseudokirchneriella subcapitata
Torque-Drive® Synthetic Automatic Transmission Fluid

**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

Hydrogenated base oil

- **Persistence and degradability**
  - The product is not readily biodegradable.
- **Biodegradation**
  - Water - Degradation 31%: 28 days

**Bioaccumulative potential**

Bio-Accumulative Potential: No data available on bioaccumulation.

**Partition coefficient**

Not available.

**Ecological information on ingredients.**

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

- **Partition coefficient**
  - log Pow: >6.5

Hydrogenated base oil

- **Bio-Accumulative Potential**
  - No data available on bioaccumulation.

**Mobility in soil**

- **Mobility**
  - 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

Hydrogenated base oil

- **Mobility**
  - No data available.

**Other adverse effects**

None known.

**13. Disposal considerations**

**Waste treatment methods**
Torque-Drive® Synthetic Automatic Transmission Fluid

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:
Torque-Drive® Synthetic Automatic Transmission Fluid

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

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:

Hydrogenated base oil

Dibutyl phosphonate

Xylene

Ethylbenzene
Torque-Drive® Synthetic Automatic Transmission Fluid

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:
Dibutyl phosphonate
Xylene
Ethylbenzene

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
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.
Torque-Drive® Synthetic Automatic Transmission Fluid

Revision comments
This is the first issue.

Revision date
3/15/2018

SDS No.
7167

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.
H322 Harmful if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs (Central nervous system, Liver, Kidneys) through prolonged or repeated exposure.
H373 May cause damage to organs (Hearing organs) 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.