Accella Tire Fill Systems
Safety Data Sheet

1. Identification of Substance:

Product Name: Tyrfil Flex, HeviDuty, Premium, Pro, RePneu TV, Ultra, Utility Catalyst Component.

Supplier Identification: Accella Tire Fill Systems
Address: 2003 Curtain Pole Rd
Chattanooga, TN 37406

Telephone: (423) 697-0400

Emergency phone number: CHEMTREC (800) 424-9300

Product Use: Polyurethane polyol component

2. Hazards Identification:

GHS Ratings:

<table>
<thead>
<tr>
<th>Substance Type</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosive</td>
<td>2</td>
<td>Reversible adverse effects in dermal tissue, Draize score: &gt;= 2.3 &lt; 4.0 or persistent inflammation</td>
</tr>
<tr>
<td>Skin sensitizer</td>
<td>1</td>
<td>Skin sensitizer</td>
</tr>
<tr>
<td>Mutagen</td>
<td>2</td>
<td>Suspected/Possible: May include heritable mutations in human germ cells, Positive evidence from tests in mammals and somatic cell tests, In vivo somatic genotoxicity supported by in vitro mutagenicity</td>
</tr>
<tr>
<td>Carcinogen</td>
<td>1B</td>
<td>Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity</td>
</tr>
<tr>
<td>Reproductive toxin</td>
<td>2</td>
<td>Human or animal evidence possibly with other information</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>1</td>
<td>Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity ? 20.5 mm2/s at 40° C.</td>
</tr>
</tbody>
</table>

GHS Hazards

- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H341 Suspected of causing genetic defects
- H350 May cause cancer
- H361 Suspected of damaging fertility or the unborn child

GHS Precautions

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray
- P264 Wash hands thoroughly after handling
- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P281 Use personal protective equipment as required
- P321 Specific treatment is urgent (see Section 4 First Aid measures)
- P331 Do NOT induce vomiting
Take off contaminated clothing and wash before reuse

Wash contaminated clothing before reuse

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Wash with soap and water

IF exposed or concerned: Get medical advice/attention

If skin irritation occurs: Get medical advice/attention

If skin irritation or a rash occurs: Get medical advice/attention

Store locked up

Dispose of contents/container in accordance with Section 13

Signal Word: Danger

3. Composition/Data on Components:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number</th>
<th>Weight Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, petroleum, heavy thermal cracked</td>
<td>64741-81-7</td>
<td>40.00% - 50.00%</td>
</tr>
<tr>
<td>Glycerol poly(oxyethylene) poly(oxypropylene) ether</td>
<td>9082-00-2</td>
<td>30.00% - 40.00%</td>
</tr>
<tr>
<td>Solvent naphtha, petroleum, heavy aromatic</td>
<td>64742-94-5</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>m-Phenylenediamine</td>
<td>108-45-2</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>0.10% - 1.00%</td>
</tr>
<tr>
<td>Polycyclic aromatic hydrocarbons</td>
<td>130498-29-2</td>
<td>0.00% - 0.10%</td>
</tr>
</tbody>
</table>

4. First Aid Measures:

Inhalation: Move to fresh air. If breathing is difficult, give oxygen.

After Eye Contact: Rinse opened eye for at least 15 minutes under running water. Remove contact lenses if present and easy to do so, and continue rinsing.

After Skin Contact: Clean affected area with soap and plenty of water.

After Swallowing: Consult physician.

Notes to Physician: Treat symptomatically

5. Fire Fighting Measures:

Flash Point: 306°F, 152°C

LEL: N/A

UEL: N/A
**Suitable Extinguishing Agents:** Water spray, CO2, Foam, Dry chemical

**Information about Protection against Explosions and Fires:** Closed containers may rupture when exposed to extreme heat.

**Dangerous Products of Decomposition:** Oxides of carbon

**Protective Equipment:** Firefighters should wear a pressure demand self-contained breathing apparatus and protective clothing.

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**6. Accidental Release Measures:**

**Person-Related Safety Precautions:** Avoid contact with skin and eyes.

**Measures for Environmental Protection:** Cover and contain spill with absorbent material. Collect for proper disposal according to local, state, and federal regulations.

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**7. Handling and Storage:**

**Information for Safe Handling:** Avoid contact with skin or inhalation.

**Storage Requirements:** Store in dry, well ventilated area. Keep containers tightly closed. Store between 60°F-100°F.

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**8. Exposure Controls and Personal Protection:**

<table>
<thead>
<tr>
<th>Chemical Name / CAS No.</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
<th>Other Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, petroleum, heavy thermal cracked 64741-81-7</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Glycerol poly(oxyethylene) poly(oxypropylene) ether 9082-00-2</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Solvent naphtha, petroleum, heavy aromatic 64742-94-5</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>m-Phenylenediamine 108-45-2</td>
<td>Not Established</td>
<td>0.1 mg/m³ TWA</td>
<td>Not Established</td>
</tr>
<tr>
<td>Naphthalene 91-20-3</td>
<td>10 ppm TWA; 50 mg/m³ TWA</td>
<td>10 ppm TWA</td>
<td>NIOSH: 10 ppm TWA; 50 mg/m³ TWA 15 ppm STEL; 75 mg/m³ STEL</td>
</tr>
<tr>
<td>Polycyclic aromatic hydrocarbons 130498-29-2</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
</tbody>
</table>

**Engineering Controls:** No specific measures expected.
General Protective and Hygienic Measures: Usual precautionary measures should be adhered to when handling chemicals.

Personal Protective Equipment:
Respiratory Protection: None required if work area is properly ventilated.
Hand Protection: Protective gloves.
Eye Protection: Safety glasses.
Body Protection: Protective work clothing. Launder separately.

9. Physical and Chemical Properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Brown liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Musty</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>N/A</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting point</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash point</td>
<td>306°F, 152°C</td>
</tr>
<tr>
<td>Flammability</td>
<td>N/A</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>N/A</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>550°C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>N/A</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity:

Incompatible Materials: Avoid contact with isocyanates and strong oxidizing agents.

Hazardous Polymerization: Not expected to occur.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, hydrocarbons, and traces of HCN.

11. Toxicological Information:

Mixture Toxicity

Component Toxicity

<table>
<thead>
<tr>
<th>Compound</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Phenylenediamine</td>
<td>204 mg/kg (Rat)</td>
<td>1,100 mg/kg (Rat)</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>1,110 mg/kg (Rat)</td>
<td>1,120 mg/kg (Rabbit)</td>
</tr>
</tbody>
</table>

Toxicity Values Listed if Known

Eyes: Liquid may cause irritation.
Skin: Moderately irritating. May cause redness, itching, and cracking.
Inhalation: Liquid may cause irritation.
Ingestion: May be harmful or fatal if swallowed. Consult physician.

Chronic Effects: May produce toxic liver, thymus, bone marrow and blood effects

Conditions Aggravated by Exposure: Asthma, respiratory disorders, skin allergies, eczema.
Routes of Entry: Inhalation, ingestion, skin contact, eye contact
Target Organs: Respiratory track, eyes, skin, liver

Chemicals with known or possible carcinogenic effects:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Description</th>
<th>% Weight</th>
<th>Carcinogen Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>91-20-3</td>
<td>Naphthalene</td>
<td>0.1 to 1.0%</td>
<td>Naphthalene: IARC: Possible human carcinogen</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA: listed</td>
</tr>
<tr>
<td>64741-81-7</td>
<td>Distillates, petroleum, heavy thermal cracked</td>
<td>40 to 50%</td>
<td>Distillates, petroleum, heavy thermal cracked: EU REACH: Present</td>
</tr>
<tr>
<td>130498-29-2</td>
<td>Polycyclic aromatic hydrocarbons</td>
<td>0.0 to 0.1%</td>
<td>Polycyclic aromatic hydrocarbons: OSHA: listed</td>
</tr>
</tbody>
</table>

12. Ecological Information:

General Information: Based on experience, no adverse effects are expected if correct disposal procedures have been followed as indicated in section 13.

If released to waterways, material can foul shoreline and may be harmful to aquatic life.

Individual component ecotoxicity listed if known.

Component Ecotoxicity
Distillates, petroleum, heavy thermal cracked
96 Hr LC50 Brachydaniio rerio: 48 mg/L [semi-static]

Solvent naphtha, petroleum, heavy aromatic
96 Hr LC50 Pimephales promelas: 19 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 2.34 mg/L [static]; 96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 41 mg/L
48 Hr EC50 Daphnia magna: 0.95 mg/L

m-Phenylenediamine
96 Hr LC50 Pimephales promelas: 1600 mg/L
48 Hr EC50 Daphnia magna: 5.9 mg/L
96 Hr EC50 Pseudokirchneriella subcapitata: 2.4 mg/L

Naphthalene
96 Hr LC50 Pimephales promelas: 5.74 - 6.44 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 1.6 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.91 - 2.82 mg/L [static]; 96 Hr LC50 Pimephales promelas: 1.99 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 31.0265 mg/L [static]
48 Hr LC50 Daphnia magna: 2.16 mg/L; 48 Hr EC50 Daphnia magna: 1.96 mg/L [Flow through]; 48 Hr EC50 Daphnia magna: 1.09 - 3.4 mg/L [Static]

13. Disposal Considerations:

Recommendation: Observe local requirements. Dispose of in accordance with local/state/federal regulations.

14. Transport Information:

DOT Regulated Components:
Environmentally Hazardous Substance, N.O.S.
Reportable Quantity: No minimum threshold

Material ships as follows:
15. Regulatory Information:

OSHA HAZARD COMMUNICATION STANDARD: This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

SARA 311/312 Hazard Categories: Acute health hazard, chronic health hazard.

California Proposition 65
(Safe Drinking Water and Toxic Enforcement Act of 1986)
This product contains no substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute unless otherwise listed:

Warning: This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm:
- Polycyclic aromatic hydrocarbons 130498-29-2 444 PPM CARC
- Naphthalene 91-20-3 0.1 to 1.0% CARC

Massachusetts Right To Know List:
- Naphthalene 91-20-3 0.1 to 1.0%
- m-Phenylenediamine 108-45-2 1 to 5%

New Jersey Right To Know List:
- Naphthalene 91-20-3 0.1 to 1.0%
- m-Phenylenediamine 108-45-2 1 to 5%

Pennsylvania Right To Know List:
- Naphthalene 91-20-3 0.1 to 1.0%

Chemicals subject to SARA 313 Reporting:
- Naphthalene 91-20-3 0.1 to 1.0% Emissions
- m-Phenylenediamine 108-45-2 1 to 5% Emissions

All Substances Listed on TSCA Inventory Unless Noted:
- None

16. Other Information:

Safety Data Sheet issued by Product Safety Department

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Accella Tire Fill Systems. The data on these sheets relates only to the specific material designated herein. Accella Tire Fill Systems assumes no legal responsibility for use or reliance upon this data. It is the user's responsibility to ensure that their activities comply with federal, state, or local laws.

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Date Prepared: 5/31/2017
Reviewer Revision 2