SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product Name: STARFIRE Premium 5W20, 5W30, 10W30, 10W40
Product Code: SF0452PL, SF0453PL, SF0313PL, SF0414PL

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use: Motor Oil
Recommended restrictions: Not applicable

1.3. Details of the supplier of the safety data sheet
Supplier: Coolants Plus Inc.
2570 Van Hook Ave.
Hamilton, OH 45015
Information Phone: +1-888-258-8723

1.4. Emergency telephone number
Emergency phone number: CHEMTREC: +1 (800) 424-9300 International: +01 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Not classified under GHS

2.2. Label elements

2.3. Other hazards
Hazards not otherwise classified: Avoid prolonged or repeated contact with used motor oil. Used motor oil has been shown to cause skin cancer in laboratory animals.

Unknown acute toxicity (GHS-US)

SECTION 3: Composition/information on ingredients

Chemical Name % CAS # GHS Classification
Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

SECTION 4: First aid measures

4.1. Description of first aid measures
Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
Eyes: Use eye wash to remove a chemical from the eye. Flush the affected eye for at least fifteen minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical attention if irritation persists.
Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists. Seek medical advice if symptoms persist.
Ingestion: Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms: Not determined

4.3. Indication of any immediate medical attention and special treatment needed
Note to Doctor: Aspiration during swallowing or vomiting may severely damage the lungs. If evacuation of stomach contents is necessary, use method least likely to cause aspiration.
SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable and Unsuitable Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.

5.2. Special hazards arising from the substance or mixture
Fire and/or Explosion Hazards
Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

5.3. Advice for firefighters
Fire Fighting Methods and Protection
Hazardous Combustion Products
Carbon monoxide, Smoke

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General Measures: No health affects expected from the clean up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this SDS.

6.2. Environmental precautions
Remove from water surface by skimming or with suitable absorbents. Do not use dispersants. Avoid runoff into storm sewers and ditches that lead to waterways. Do not flush to sewer.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center.

6.4. Reference to other sections
Follow all protective equipment recommendations provided in Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Mildly irritating material. Avoid unnecessary exposure.

7.2. Conditions for safe storage, including any incompatibilities
Store in a cool dry place. Isolate from incompatible materials.

Incompatible materials
See Section 10.

7.3. Specific end use(s)
Motor Oil

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Occupational Exposure Limits</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil mist, mineral</td>
<td>OSHA PEL</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td>Oil mist, mineral</td>
<td>OSHA PEL</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td>None</td>
<td>OSHA STEL</td>
<td></td>
</tr>
<tr>
<td>Oil mist, mineral</td>
<td>ACGIH TLV-TWA</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td>Oil mist, mineral</td>
<td>ACGIH TLV-TWA</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td>Oil mist, mineral</td>
<td>ACGIH STEL</td>
<td>10 mg/m3</td>
</tr>
<tr>
<td>Oil mist, mineral</td>
<td>ACGIH STEL</td>
<td>10 mg/m3</td>
</tr>
<tr>
<td>None</td>
<td>IDLH</td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>OSHA PEL-Skin Notation</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls
8.2. Exposure controls

**Engineering Measures**
Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

**Respiratory Protection**
Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

**Respirator Type(s)**
None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

**Eye Protection**
No special requirements under normal industrial use.

**Skin Protection**
Where use can result in skin contact, practice good personal hygiene and wear impervious gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves**
Neoprene, Nitrile

---

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Brown</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Mild</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Freezing point</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Flash Point (°C)</strong></td>
<td>206</td>
</tr>
<tr>
<td><strong>Flash Point Method</strong></td>
<td>COC</td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Upper Flammable/Explosive Limit, % in air</strong></td>
<td>= 10</td>
</tr>
<tr>
<td><strong>Lower Flammable/Explosive Limit, % in air</strong></td>
<td>= 1</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>&lt;0.20</td>
</tr>
<tr>
<td><strong>Vapor Density</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Relative Density</strong></td>
<td>0.86 - 0.87</td>
</tr>
<tr>
<td><strong>Solubility in Water</strong></td>
<td>Negligible; 0-1%</td>
</tr>
<tr>
<td><strong>Octanol/Water Partition Coefficient</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Autoignition Temperature</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Viscosity (°C)</strong></td>
<td>51.33 - 94.59</td>
</tr>
</tbody>
</table>

9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Volatile organic compound (VOC) content and percentage of volatiles</strong></td>
<td>0.000000</td>
</tr>
</tbody>
</table>

---

**SECTION 10: Stability and reactivity**

10.1. Reactivity
No data available.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Moisture (will lead to product performance degradation).

10.5. Incompatible materials
Strong oxidizing agents

10.6. Hazardous decomposition products
Carbon monoxide, Smoke, Carbon monoxide, sulfur oxides, aldehydes, and other petroleum decomposition products in the case of incomplete combustion. Oxides of nitrogen, phosphorus,
SECTION 10: Stability and reactivity

calcium, copper, magnesium, sodium, and hydrogen sulfide may also be present.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Ingestion Toxicity  
No hazard in normal industrial use. Estimated to be > 5.0 g/kg.

Skin Contact  
This material is likely to be slightly irritating to skin based on animal data. Can cause minor skin irritation, defatting, and dermatitis.

Absorption  
Likely to be practically non-toxic based on animal data.

Inhalation Toxicity  
Harmful! Can cause systemic damage (see "Target Organs"). Likely to be practically non-toxic based on animal data.

Eye Contact  
This material is likely to be non-irritating to eyes based on animal data. No hazard in normal industrial use.

Sensitization  
Non-hazardous under Respiratory Sensitization category.

Mutagenicity  
No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Carcinogenicity  
Not expected to cause cancer. This product meets the IP-346 criteria of <3% PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.

Reproductive and Developmental Toxicity  
No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

Specific target organ toxicity-Single exposure  
Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure category.

Specific target organ toxicity-Repeated exposure  
Non-hazardous under Specific Target Organ Systemic Toxicity Repeated Exposure category.

Long-Term (Chronic) Health Effects  
No data available.

Aspiration toxicity  
Non-hazardous under Aspiration category.

Other information  
No data available.

 Agents Classified by IARC Monographs  
Not applicable  
IARC Group 1  
Not applicable  
IARC Group 2A  
Not applicable  
IARC Group 2B

National Toxicity Program (NTP) Status  
Not applicable  
Known Human Carcinogen  
Not applicable  
Reasonably Anticipated To Be A Human Carcinogen

SECTION 12: Ecological information

12.1. Toxicity

Acute Aquatic ecotoxicity:  
Non-hazardous under Aquatic Acute Environment category.

Chronic Aquatic ecotoxicity:  
Non-hazardous under Aquatic Chronic Environment category.

12.2. Persistence and degradability

Biodegrades slowly.

12.3. Bioaccumulative potential

Bioconcentration may occur.

12.4. Mobility in soil

This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Not determined

SECTION 13: Disposal considerations

13.1. Waste treatment methods
SECTION 13: Disposal considerations

Disposal Methods
Dispose of according to Federal, State, Local, or Provincial regulations. Recycle used oil.

Waste Disposal Code(s)

Waste Description for Spent Product
Spent or discarded material is non-hazardous according to environmental regulations.

Contaminated packaging:
Recycle containers whenever possible.

SECTION 14: Transport information

DOT
Proper Shipping Name: No data available.
UN Number: No data available.
Hazard Class: No data available.
Packing Group: No data available.

DOT Basic Description
Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).

IMDG
Proper Shipping Name: No data available.
UN Number: No data available.
Hazard Class: No data available.
Packing Group: No data available.
Marine Pollutant: No data available.

IATA
Proper Shipping Name: No data available.
UN Number: No data available.
Hazard Class: No data available.
Packing Group: No data available.

SECTION 15: Regulatory information

Chemical Inventories

U.S. State Restrictions: Not applicable
WHMIS: Uncontrolled product according to WHMIS classification criteria.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Regulation</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td>CERCLA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>SARA 313</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>SARA EHS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>TSCA 12b</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U.S. State Regulations</th>
<th>Regulation</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td>California Prop 65- Cancer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>California Prop 65- Dev. Toxicity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>California Prop 65- Reprod -fem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>California Prop 65- Reprod-male</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>Massachusetts RTK List</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>New Jersey RTK List</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>Pennsylvania RTK List</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>Rhode Island RTK List</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>Minnesota Hazardous Substance List</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
HMIS Ratings:  
Health: 1
Fire: 1
Reactivity: 0
PPE: B

NFPA Ratings:  
Health: 1
Fire: 1
Reactivity: 0

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 – Extreme

SECTION 16: Other information

Revision Date: 5/23/2016 12:44:54 PM
Supersedes: 4/28/2016 2:30:56 PM
Other Info: No data available.
References: No data available.

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