1. IDENTIFICATION

Product Identifier
ProductName Champion 80% ETHER Starting Fluid 4580

Other means of identification
ProductCode 4580
UN/ID No UN1950

Recommended use of the chemical and restrictions on use
RecommendedUse Engine starting fluid.

Details of the supplier of the safety datasheet
SupplierAddress Champion Brands, LLC
1001 Golden Drive
Clinton, MO 64735

Emergency Telephone Number
Company PhoneNumber 1-800-821-5693
Emergency Telephone (24hr) INFOTRAC 1-352-323-3500(International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Colorless liquid
Physical State Aerosol
Odor Aromatic/ketone-like

Classification

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Aspiration toxicity</td>
<td>Category 1</td>
</tr>
<tr>
<td>Flammable Aerosols</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Signal Word
Danger
**Hazard Statements**
- Harmful if swallowed
- Harmful if in contact with skin
- Harmful if inhaled
- Causes skin irritation
- May be fatal if swallowed and enters airways
- May cause drowsiness and dizziness.
- Extremely flammable aerosol
- Repeated exposure may cause skin dryness or cracking

**Precautionary Statements - Prevention**
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Wash face, hands and any exposed skin thoroughly after handling
- Do not use near water
- Use only outdoors or in a well-ventilated area
- Wear eye/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- Keep away from heat/sparks/open flames/hot surfaces.
- No smoking
- Do not spray on an open flame or other ignition source
- Pressurized container: Do not pierce or burn, even after use

**Precautionary Statements - Response**
- If exposed or concerned: Get medical advice/attention
- If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash it before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
- IF SWALLOWED: Immediately call a POISON CENTER or physician if you do not induce vomiting
- Rinse mouth

**Precautionary Statements - Storage**
- Store locked up
- Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F

**Precautionary Statements - Disposal**
- Dispose of contents/container to an approved waste disposal plant

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane (Hydrotreated Light Petroleum Naphtha)</td>
<td>64742-49-0</td>
<td>15-25</td>
</tr>
<tr>
<td>Di Ethyl Ether</td>
<td>61-50-8</td>
<td>75-85</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>1-5</td>
</tr>
</tbody>
</table>
### 4. FIRST-AID MEASURES

**First Aid Measures**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye Contact</strong></td>
<td>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.</td>
</tr>
<tr>
<td><strong>Skin Contact</strong></td>
<td>Wash off immediately with soap and plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician if you feel unwell.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.</td>
</tr>
</tbody>
</table>

**Most important symptoms and effects**

<table>
<thead>
<tr>
<th>Symptoms</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>May cause irritation and redness. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.</td>
</tr>
</tbody>
</table>

**Indication of any immediate medical attention and special treatment needed**

<table>
<thead>
<tr>
<th>Notes to Physician</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gastric lavage should only be considered by medical person if following intubation with a cuffed endotracheal tube.</td>
<td></td>
</tr>
</tbody>
</table>

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Dry chemical. Alcohol-resistant foam. Carbon dioxide (CO2).

**Unsuitable Extinguishing Media**

Do not use direct stream of water, material may float and re-ignite.

**Specific Hazards Arising from the Chemical**

Vapors are heavier than air and may spread along floors. Vapors may travel to source of ignition and flashback.

**Hazardous Combustion Products**

Carbon oxides.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Use personal protective equipment as required. Remove all sources of ignition.

Methods and material for containment and cleaning up

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up
Contain and collect with an inert absorbent and place into an appropriate container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not get in eyes, on skin, or on clothing. Do not throw empty containers in trash compactor.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep container tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Do not store at temperatures above 120°F. Store locked up.

Incompatible Materials
Strong oxidizers. Strong acids
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIHTLV</th>
<th>OSHAPEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane</td>
<td>342 ppm (1400 mg/m3) 8 hours</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>64742-49-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Di Ethyl Ether</td>
<td>STEL: 500 ppm  TWA: 400 ppm</td>
<td>1000 ppm</td>
<td>NE</td>
</tr>
<tr>
<td>61-50-8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Carbondioxide       | STEL: 30000ppm  TWA: 5000ppm | TWA: 5000ppm  
| 124-38-9            |               |         | TWA: 9000mg/m3(vacated) TWA: 18000mg/m3(vacated) STEL: 30000ppm(vacated) STEL: 54000mg/m3 |
|                     |               |         | IDLH: 40000ppm |

Appropriate engineering controls

**Engineering Controls**

Apply technical measures to comply with the occupational exposure limits.

**Individual protection measures, such as personal protective equipment**

**Eye/ Face Protection**

Goggles.

**Skin and Body Protection**

Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear lined non-permeable rubber gloves like BUNA or NITRILE.

**Respiratory Protection**

When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.
9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Aerosol</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Colorless liquid</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Aromatic/ketone-like</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Property</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>&lt; -17 °C / &lt; 0 °F</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Faster than butylacetate</td>
<td>Not determined</td>
</tr>
<tr>
<td>(Solid, Gas)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>ed</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>1.0%</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>110psig Greater</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>than air 0.69-</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.71</td>
<td></td>
</tr>
<tr>
<td>(1=Water)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>~5%</td>
<td></td>
</tr>
<tr>
<td>Solubility in othersolvents</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>VOC Content</td>
<td>96%</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to Avoid
Heat, flames and sparks. Avoid temperatures above 120°F. Avoid direct sunlight.

Incompatible Materials
Strong oxidizers. Strong Acids.

Hazardous Decomposition Products
Carbon oxides.
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact
Mild eye irritation.

Skin Contact
Causes skin irritation. Harmful if prolonged contact with skin occurs.

Inhalation
Harmful if inhaled.

Ingestion
Harmful if swallowed.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Di Ethyl Ether 61-</td>
<td>1215 mg/kg (Rat)</td>
<td>20 mL/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Heptane 64742-49-0</td>
<td>No information</td>
<td>No information</td>
<td>No information</td>
</tr>
</tbody>
</table>

Information on physical, chemical and toxicological effects

Symptoms
Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity
Not classifiable as a human carcinogen.

Reproductive toxicity
No information.

STOT - single exposure
No information.

STOT - repeated exposure
No information.

Aspiration hazard
May be fatal if swallowed and enters airways.

Numerical measures of toxicity
Not determined
12. ECOLOGICAL INFORMATION

**Ecotoxicity**
Toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>ChemicalName</th>
<th>Algae/aquaticplants</th>
<th>Fish</th>
<th>Micotox</th>
<th>Water Flea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Di Ethyl Ether 61-50-8</td>
<td>NE</td>
<td>10000 mg/L LC50 96 h 2560 mg/L LC50 96 h</td>
<td>EC=5600 mg/L 15 min</td>
<td>EC50= 165 mg/L/24 h</td>
</tr>
<tr>
<td>Heptane 64742-49-0</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
</tbody>
</table>

**Persistence/Degradability**
Not determined.

**Bioaccumulation**
Not determined.
13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No: UN1950
Proper Shipping Name: Aerosols
Hazard Class: 2.1

IATA

UN/ID No: UN1950
Proper Shipping Name: Aerosols, flammable
Hazard Class: 2.1

IMDG

UN/ID No: UN1950
Proper Shipping Name: Aerosols
Hazard Class: 2.1
Marine Pollutant: This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

TSCA: Listed

Legend:
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA: None listed.
SARA313: None Listed.
CWA (Clean WaterAct): None Listed.

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals.
None listed.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Di Ethyl Ether</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>4</td>
<td>0</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Issue Date: 5/19/2015
Revision Date: 11/17/2015
Revision Note: New format

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

End of Safety Data Sheet