1. Product Identification

Champion Brands, LLC
1001 Golden Drive
Clinton, MO 64093
(660) 885-8151
ISO 9001:2015 Registered Company

Product line: CHAMPION® Silicone DOT 5 Brake Fluid
Products: 4055
CAS: Not applicable (Mixture)
Synonyms: Polydimethylsiloxane hydraulic fluid
Recommended use: Disk and drum hydraulic brake fluid
Restrictions: Do not use where DOT 5.1 is specified
Do not mix with DOT 3, DOT 4, or DOT 5.1
Created: 14 June 2013
Revised: 9 February 2017
Emergency phone: CHEMTREC: (+1) 800-424-9300

2. Hazards Identification

Appearance: Purple liquid
Odor: Mild
Classification(s): Skin Irritation, Category 3
Carcinogenicity, Category 2
Aquatic Toxicity, Acute Category 3
Target organs: None

Signal Word: Warning
Hazard Statement(s): (H315) Causes mild skin irritation. (H351) Suspected of causing cancer. (H402) Harmful to aquatic life.

Other hazard(s): Mildly irritating to the eyes and skin. Respiratory exposure is likely to cause irritation.
Precaution(s): Wear eye and skin protection before handling. Do not breathe mist/vapors/spray. Wear protective gloves/protective clothing. IF IN EYES: Flush with water for 15 minutes and consult a physician. Do no ingest. IF SWALLOWED: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Disposal: Keep out of waterways. Check local, national, and international regulations for proper disposal.

HMIS (estimated): Health - 2  Fire - 1  Instability - 0

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Conc (wt%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polydimethylsiloxane</td>
<td>63148-62-9</td>
<td>90 - 100</td>
</tr>
<tr>
<td>Tributylphosphate</td>
<td>126-73-8</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Additives</td>
<td>Proprietary</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

4. First Aid Measures

Eyes: Remove contact lenses, if worn. Rinse with running water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.

Skin: Remove affected clothing and launder before reuse. Wash affected area for at least 15 minutes with soap and running water. If irritation occurs, consult a physician.

Inhalation: Inhalation is unlikely. If mists or sprays are inhaled, move victim to fresh air. If breathing is difficult, give artificial respiration and consult a physician.

Ingestion: Do NOT induce vomiting. If a significant volume has been swallowed, consult a physician.

Additional Info: Not determined

Specific Treatments: Not determined. Treat symptomatically

5. Fire Fighting Measures
NFPA (estimated): Health - 2 Fire - 1 Instability - 0

Flash Point
>120°C / 248°F (calculated)

Extinguishing Media
For small fires use dry chemical or CO₂. For large fires apply large (flooding) quantities of water from as far away as possible in a spray or mist, or use dry chemical or CO₂.

Unsuitable Media
Not determined

Firefighting Procedures:
Wear a self-container breathing apparatus if necessary based on concentrations of smoke. Evacuate in accordance with emergency planning. Use water spray to keep containers cool.

Unusual Hazards
Not Determined

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:
Ventilate if released in a confined area. Avoid breathing mists/vapors/spray. Product may present slipping hazard if left on the floor.

Environmental precautions: Avoid release to the environment. Prevent from entering into soil, ditches, sewers, waterways or groundwater

Methods for removal: Use a fluid pump to remove bulk liquid. Residual liquid can be absorbed on inert material. Dispose of contaminated adsorbent as hazardous waste. Wash the area with water after excess product and adsorbent is removed.

7. Handling and Storage

Max. Handling Temp: Not determined

Procedures:
Use in a well ventilated area. Avoid breathing mists/vapors/spray. Avoid handling hot product where possible. Use appropriate personal protective equipment to avoid contact with skin and eyes. Note the location of nearest emergency shower and eye wash station before use. Store with the lid tightly closed in a cool, dry, well-ventilated place. Do not store near oxidizers. Dispose of spilled or used material in accordance with local, regional, national, and international regulations.

Max Store Temp: Do not store or handle at elevated temperatures.
8. Exposure Controls/Personal Protection

Exposure Limits

US
Guidelines by component
Tributylphosphate
   OSHA TWA: 0.2ppm
   ACGIH TWA: 0.2ppm

Other Exposure Limits: Not determined

Engineering Controls: Use in a well ventilated area. Local and general ventilation should keep methanol vapor concentration below permissible limits. Where exposure potential exceeds recommended limits, use a NIOSH/OSHA approved supplied air respirator as recommended.

Personal Protective Equipment
Respiratory: Use a NIOSH or CEN approved full-face respirator with multi-purpose combination or type ABEK respirator cartridges as a backup to engineering controls. If the respirator is the only means of protection, use a full-face supplied air respirator

Eye: Use tightly-fitting chemical splash goggles. Use face shield, especially where splashing is likely to occur

Gloves: Use nitrile, butyl, viton, or fluoroelastemer gloves. Even appropriate materials may degrade after prolonged exposure with product.

Clothing: Use chemical resistant pants and jackets, preferably of butyl or nitrile rubber

Other: Locate the nearest eyewash station and safety shower before handling this product. Limit exposure whenever possible.

Hygiene: Wash thoroughly after handling this product.

9. Physical and Chemical Properties

Appearance Purple liquid
Odor Mild
Odor threshold Not determined
pH Not determined
Melting Point Not determined
Initial Boiling Pt > 260°C / 500°F
Flash Point > 120°C / 248°F
Evaporation Rate Not determined
Upper Flammable Lm Not determined
Lower Flammable Lm Not determined
Explosive Data Not determined
Vapor Pressure Not determined
Vapor Density Not determined
Volatile Organics Not determined
Density 0.985 mg/cu. cm @ 25.0°C
Solubility Insoluble in water and organic solvents
K<sub>ow</sub> Not determined
Viscosity 42.7 mm/s<sup>2</sup> @ 40°C
Autoignition Point Not determined
Decomposition Temp Not determined

10. Stability and Reactivity

Stability Material is normally stable at ambient temperatures and pressures.
Decomposition Temp Not determined
Incompatibility Keep away from strong oxidizers and strong bases.
Polymerization Will not occur
Thermal Decomposition Primarily oxidizes to carbon dioxide and silicon dioxide in normal combustion conditions. In lower oxygen environments carbon monoxide, formaldehyde, or formic acid may be formed.
Conditions to Avoid Keep away from strong oxidizers as reaction may occur

11. Toxicological Information

- Acute Exposure -

Eye Irritation May cause mild to moderate irritation of the eye if exposed to liquid or in high vapor concentrations. May cause irritation, tearing, or burning of the eyes.
Skin Irritation Expected to be mildly irritating to the skin. Symptoms of irritation may include redness, drying, and cracking of the skin.
Respiratory Irritation High vapor concentrations may cause transient irritation to the respiratory system.
Dermal Toxicity This product can be absorbed through the skin. Limit exposure to skin where possible.
Inhalation Toxicity Toxicity is similar to that for oral ingestion, though this exposure mode is far less likely to occur.
Oral Toxicity
Low order of toxicity, not expected to cause injury under normal exposure conditions.

Aspiration Hazard
This product is of low risk for aspiration due to viscosity. Do NOT induce vomiting, as this increases risk of aspiration.

- Chronic Exposure -

Chronic Toxicity
This product may cause dryness or defatting of the skin, dermatitis, or may aggravate existing skin conditions.

Carcinogenicity
This product and its components are NOT listed by the IARC, NTP, ACGIH, or OSHA as carcinogens. Tributylphosphate in this product has been found tumorigenic in rats and mice (oral exposure) by RTECS criteria (Kidney, Ureter, Bladder, Liver).

Mutagenicity
No data available

Reproductive Toxicity
Not likely based on exposure to product. Tributylphosphate in this product has been linked to growth abnormalities in newborn rats (oral)

Teratogenicity
Not likely based on exposure to product. Tributylphosphate in this product has been linked to fetotoxicity in rats (oral)

- Additional Information -

Target organ toxicity
Product is does not exhibit specific organ toxicity. Tributylphosphate in this product has been linked to tumors of the bladder, kidney, ureter, and liver in rats and mice.

Synergistic effects
No data available

Pharmacokinetics
No data available

12. Ecological Information

- Environmental Toxicity -

Freshwater Fish
Acute LC50 > 170 mg/L (96h, goldfish)

Freshwater Invertebrates
Acute EC50 > 70mg/l (48h, water flea)

Algae
Acute EC50 > 20mg/L (72h, green algae)

Saltwater Fish
Not determined

Saltwater Invertebrates
Not determined

Bacteria
Not determined

Miscellaneous
Not determined

- Environmental Fate -

Biodegradation
No data available. Expected to have little to no biodegradation potential and likely to degrade primarily through photochemical oxidation

Bioaccumulation
Product adheres to soil and is unlikely to be absorbed by organisms. Tributylphosphate in this product has an BCF of 21 - 35.

Soil Mobility
Product tightly adsorbs to soil, slowly evaporates and oxidizes at environmentally relevant temperatures
13. Disposal Considerations

Disposal Considerations
All disposal practices must be in accordance with local, regional, national, and international regulations. Store material for disposal as indicated in Section 7. Disposal by controlled incineration or by secure land fill may be acceptable - review applicable regulations or regulatory bodies before making disposal decisions.

Contaminated Containers or Packaging
Do NOT weld, cut, or grind empty containers. Dispose of empty containers in accordance with local, regional, national, and international regulations.

14. Transportation Information
Description shown may not apply to all shipping situations. Consult applicable shipping codes to determine any additional shipping requirements.

US DOT Not dangerous goods
IMDG Not dangerous goods
ICAO/IATA Not dangerous goods

15. Regulatory Information

- Global Chemical Inventories/Regulations -
USA All components of this material are on the US TSCA
Other TSCA Reg. None known
EU No information available
New Zealand May require notification before sale under New Zealand Regulations
Canada No information available
Canada WHMIS Not determined

- Other U.S. Federal Regulations -
SARA Ext. Haz. Subst. No components listed as Extremely Hazardous Substances list. See 40 CFR 355
SARA Sect. 313 No components of this product are subject to reporting under SARA Title III, Section 313. See 40 CFR 372

SARA 311/312 Class Acute Hazard - YES
Chronic Hazard - NO
Fire Hazard - NO
Reactivity Hazard - NO
CERCLA Haz. Sub.  No components listed. See 40 CFR 302

- **State Regulations** -
  This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

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<tr>
<td>Tributylphosphate</td>
<td>MA, PA, NJ, LA</td>
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<td>(CAS # 126-73-8)</td>
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- **Other** -

16. Other Information

Revision updates may be in many sections and the MSDS should be read in its entirety. Prepared according to the UN Globally Harmonized System for the Classification and Labeling of Chemicals (GHS) by Champion LLC, 1001 Golden Drive, Clinton, Missouri 64735.

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