1. Product Identification

Champion Brands, LLC
1001 Golden Drive
Clinton, MO 64093
(660) 885-8151

Product line: CHAMPION® 5 Minute Engine Flush
Products: 4133
CAS: 8008-20-6
Synonyms: Distillate fuel
Recommended use: Solvent
Restrictions: Do not use near heat/sparks/open flames.
Created: 22 March 2012
Revised: 18 November 2019
Emergency phone: CHEMTREC: (+1) 800-424-9300

2. Hazards Identification

Appearance: Clear, red liquid
Odor: Mild hydrocarbon odor
Classification(s): Flammable Liquid, Category 3
Aspiration Hazard, Category 1
Skin Irritation, Category 2
Aquatic Toxicity (Chronic), Category 2
Aquatic Toxicity (Acute), Category 2
Specific Target Organ Toxicity – Single Exposure, Category 3

Target organs: CNS - narcotic effects

Signal Word: DANGER
Hazard Statement(s): Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. Toxic to aquatic life.
Other hazard(s): Repeated exposure may cause dryness of the skin

Precaution(s): Keep away from heat/sparks/open flames/hot surfaces – no smoking. Do not breathe mist/vapors/spray. Use in a well ventilated area. Wear protective gloves/protective clothing. Do no ingest. IF SWALLOWED: Do NOT induce vomiting. Get immediate medical attention

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

3. Composition/Information on Ingredients

Hazardous Ingredients:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Conc (wt%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerosene</td>
<td>8008-20-6</td>
<td>100</td>
</tr>
</tbody>
</table>

**Product may contain trace amounts of naphthalene

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 if irritation persists.

Skin Remove affected clothing and launder before reuse. Wash affected area for at least 15 minutes with soap and running water. Seek medical attention if persistent irritation occurs. Prolonged or repeated exposure may cause defatting of the skin – symptoms include redness, dryness, cracking

Inhalation Remove exposed person to fresh air immediately. Restore or assist breathing, if necessary. Get medical attention if breathing is slow or difficult.

Ingestion If swallowed DO NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to minimize the chance of aspiration. If fever, shortness of breath, congestion, coughing or wheezing occurs, get immediate medical attention.

Additional Info Specific Treatments Note to physician: High potential for chemical pneumonitis! Consider gastric lavage with protected airway, or administration of activated charcoal. Call poison control for specific guidance.
## 5. Fire Fighting Measures

<table>
<thead>
<tr>
<th>NFPA (estimated):</th>
<th>Health - 1</th>
<th>Fire - 2</th>
<th>Instability - 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>38°C / 100°F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extinguishing Media</td>
<td>Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unsuitable Media</td>
<td>Do not use water jet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Firefighting Procedures:</td>
<td>Keep nearby containers cool with water spray.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unusual Hazards</td>
<td>Low flash point - significant potential for flash fires. Material will flow over water pools and may cause fire to spread. Incomplete combustion can produce carbon monoxide.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:**
Flammable liquid - can cause flash fires from a significant distance to a source of ignition. Keep unnecessary personnel away. Wear appropriate personal protective equipment for emergency. Ventilate if released in a confined area. Eliminate sources of ignition if it is safe to do so.

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

**Methods for removal:** Use an explosion-proof pump to remove bulk liquid. Residual liquid can be absorbed on inert material or evaporated with adequate ventilation. **Use only non-sparking tools.**

## 7. Handling and Storage

**Max. Handling Temp:** Do not store or handle at elevated temperatures. See Section 5 for flammability and Section 10 for chemical stability.

**Procedures:** Use only in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Use appropriate containment to avoid environmental contamination. Vapors are heavier than air and will tend to accumulate in low areas. Avoid sources of ignition and use non-sparking tools. Avoid
use in confined areas without adequate ventilation. Areas of inadequate ventilation could contain concentrations high enough to cause eye irritation, headaches, or nausea. Avoid breathing dust, fume, gas, mist, vapors, or spray. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of the product. Do no weld, heat, or pressurize empty containers. Do not re-use containers. Dispose of packaging or containers in accordance with local, regional, national, and international regulations. Store away from strong oxidizers

Max Store Temp: Do not store or handle at elevated temperatures.

Unsuitable Materials: Avoid prolonged contact with natural, butyl or nitrile rubbers.

Other: Store in a diked area and prevent discharge into the aquatic environment

8. Exposure Controls/Personal Protection

Exposure Limits

US
Guidelines by component
Kerosene (CAS # 8008-20-6)
NIOSH: 100 ppm (TWA)
ACGIH: 200 mg/m³ (TWA)

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. Vapors are heavier than air and will tend to accumulate in low-lying areas.

Personal Protective Equipment
Respiratory: Use a positive-pressure supplied-air NIOSH approved respirator when used in confined spaces or where engineering controls are not sufficient to limit exposure to below recommended limits

Eye: Face shield or chemical splash goggles when splashing may occur. If possible, remove contact lenses before handling
Gloves: Use neoprene or viton gloves. Nitrile gloves can be used - but prolonged contact may cause the rubber to degrade

Clothing: Use chemical resistant pants and jackets

Other: Locate the nearest eyewash station and safety shower before handling this product. Limit exposure whenever possible. Consider flammability and always use non-sparking tools.

Hygiene: Wash thoroughly after handling this product.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, red liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild hydrocarbon odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
</tr>
<tr>
<td>Melting Point</td>
<td>-26°C / -15°F</td>
</tr>
<tr>
<td>Initial Boiling Pt</td>
<td>149°C / 300°F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>37°C / 100°F (minimum)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>0.25 (where ethyl ether = 1)</td>
</tr>
<tr>
<td>Upper Flammable Lm</td>
<td>6% vol. in air</td>
</tr>
<tr>
<td>Lower Flammable Lm</td>
<td>0.7% vol. in air</td>
</tr>
<tr>
<td>Explosive Data</td>
<td>Vapors of this product may form explosive mixtures with air</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>5 (where air = 1)</td>
</tr>
<tr>
<td>Volatile Organics</td>
<td>100%</td>
</tr>
<tr>
<td>Density</td>
<td>0.8 mg/cu. cm @ 15.6°C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Negligible</td>
</tr>
<tr>
<td>K_{ow}</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1 mm/s^2 @ 40°C / 105°F</td>
</tr>
<tr>
<td>Autoignition Point</td>
<td>210°C / 410°F</td>
</tr>
<tr>
<td>Decomposition Temp</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Stability: Material is normally stable at ambient temperatures and pressures. Has low vapor pressure - vapors may form explosive mixtures with air!

Decomposition Temp: Not determined. Stable under normal conditions of use

Incompatibility: Keep away from strong oxidizers. Contact with these materials may cause violent or explosive reactions.

Polymerization: Will not occur

Thermal Decomposition: Combustion products highly dependent on conditions. Produces carbon oxides. Lower oxygen environments are likely to produce more harmful particulate carbon,
Conditions to Avoid
Flammable liquid and vapor - keep away from strong oxidizers as well as heat/sparks/open flames/hot surfaces.

11. Toxicological Information

- Acute Exposure -
Eye Irritation Expected to be slightly irritating
Skin Irritation Mild skin irritant. Repeated exposure may cause dermatitis, drying, cracking, and defatting of the skin.
Respiratory Irritation Inhalation of vapors or mists may cause irritation to the respiratory system.
Dermal Toxicity Low order of toxicity LD50 >5g/kg, rat
Inhalation Toxicity Expected to be of low toxicity if inhaled.
Oral Toxicity Low order of toxicity LD50 >5g/kg, rat
Aspiration Hazard This product has a very low viscosity and may be fatal if aspirated into the airways. Do NOT induce vomiting, as this increases risk of aspiration/chemical pneumonitis. Aspiration may be fatal.

- Chronic Exposure -
Chronic Toxicity This product may cause dryness or defatting of the skin, dermatitis, or may aggravate existing skin conditions.
Carcinogenicity Not classified as a carcinogen. Repeated skin contact of trace impurity has resulted in irritation and skin cancer in animals (Naphthalene)
Mutagenicity Available information does not suggest that this product is a germ cell mutagen
Reproductive Toxicity Available information does not suggest that this product is a reproductive toxin.
Teratogenicity Available information does not suggest that this product is a teratogen

- Additional Information -
Target organ toxicity Single Exposure - high concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.
Repeat exposure (Kidney) - caused kidney effects in male rats which are not considered relevant to humans
Synergistic effects No data available
Pharmacokinetics No data available
12. Ecological Information

- Environmental Toxicity -
  Fish  
  Toxic: LC/EC/IC50 1 - 10mg/L
  Aquatic Invertebrates  
  Toxic: LC/EC/IC50 1 - 10mg/L
  Algae  
  Toxic: LC/EC/IC50 1 - 10mg/L
  Bacteria  
  Not determined
  Microorganisms  
  Practically non-toxic: LC/EC/IC50 > 100mg/L

- Environmental Fate -
  Biodegradation  
  Expected to be readily biodegradable. Oxidizes rapidly by photo-chemical reactions in the air.
  Bioaccumulation  
  Adheres to soil – has the potential to bioaccumulate
  Soil Mobility  
  Adsorbs to soil and has low mobility under normal conditions
  Other Effects  
  Floats on water and produces a sheen - very mobile in the aquatic environment

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 recycling may be acceptable – review applicable regulations or regulatory bodies before making disposal decisions.

Contaminated Containers or Packaging
Empty containers are likely to contain flammable vapors or explosive mixtures of vapor and air. Do NOT weld, cut, or grind empty containers. Send to reconditioner or metal reclaimer if possible. Dispose of 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
UN No  1223
UN Proper Name  Kerosene
UN Class  3
Packing Group  III
Marine Pollutant  *This product is carried under the scope of MARPOL Annex I

IMDG
UN No  1223
UN Proper Name  Kerosene
UN Class  3
Packing Group: III
Environmental Hazard: Yes

ICAO/IATA
UN No: 1223
UN Proper Name: Kerosene
UN Class: 3
Packing Group: III

15. Regulatory Information

- Global Chemical Inventories/Regulations -
  USA
  Other TSCA Reg.
  All components of this material are on the US TSCA
  This product is listed on the TSCA as UVCB (Unknown,
  Variable composition, or Biological)
  EU
  Components of this product and similar mixtures are
  registered under REACH. Consult the European Chemicals
  Agency regarding REACH registration, reporting, and other
  legal requirements for kerosene before importing to the EU.
  Canada
  All components of this product are listed on the Canadian
  Domestic Substances List (DSL).
  Canada WHMIS
  B3 (Combustible liquid)

- Other U.S. Federal Regulations -
  No chemicals in this product are listed on the SARA 302
  Extremely Hazardous Substances list.
  SARA 311/312
  Acute Hazard - YES
  Chronic Hazard - YES
  Fire Hazard - YES
  Reactivity Hazard -
  SARA Sect. 313
  This product may contain listed chemicals below the de
  minimus levels which therefore are not subject to the
  notification requirements of Section 313 of the Emergency
  Planning and Community Right-to-Know Act.
  CERCLA Haz. Sub.
  No chemicals in this product are reportable to the National
  Response Center under the Comprehensive Environmental
  Response, Compensation, and Liability Act (CERCLA)

- State Regulations -
  CA Prop 65
  Warning: This product contains a chemical known to the
  State of California to cause cancer
Right to Know Component | Right to Know States
---|---
Kerosene (CAS # 8008-20-6) | NJ, PA, MA
Naphthalene (CAS# 91-20-3) | CA, MA, MN, NJ, PA

- 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.

Disclaimer: The information presented herein has been compiled from sources considered to be dependable and is accurate to the best knowledge of Champion Brands, L.L.C. Champion Brands, L.L.C., makes no warranty whatsoever expressed or implied of merchantability or fitness for the particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. Champion Brands, L.L.C., assumes no legal responsibility for use or reliance upon this data. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.