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

1.1. Product identifier
Product form: Mixture
Trade name: CHAMPION RX 454 PENETRANT 9 OZ.
Product code: 4244M

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Lubricant

1.3. Details of the supplier of the safety data sheet
CHAMPION BRANDS
1001 GOLDEN DRIVE
CLINTON, MO 64735
T 660-885-8151

1.4. Emergency telephone number
Emergency number: CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (GHS-US)
Flam. Aerosol 1 H222
Compressed gas H280
Muta. 1B H340
Carc. 1A H350
Full text of H-phrases: see section 16

2.2. Label elements
GHS-US labeling
Hazard pictograms (GHS-US):

Signal word (GHS-US): Danger
Hazard statements (GHS-US):
H222 - Extremely flammable aerosol
H280 - Contains gas under pressure; may explode if heated
H340 - May cause genetic defects
H350 - May cause cancer

Precautionary statements (GHS-US):
P201 - Obtain special instructions
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking
P211 - Do not spray on an open flame or other ignition source
P251 - Pressurized container: Do not pierce or burn, even after use
P280 - Wear protective gloves, protective clothing, eye protection, face protection
P308+P313 - If exposed or concerned: Get medical advice/attention
P405 - Store locked up
P410+P403 - Protect from sunlight. Store in a well-ventilated place
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

2.3. Other hazards
Other hazards not contributing to the classification: Contains gas under pressure; may explode if heated.

2.4. Unknown acute toxicity (GHS-US)
No data available

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture
SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general:
- Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation:
- Cough. Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact:
- Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact:
- Direct contact with the eyes is likely to be irritating. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion:
- Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries:
- May cause genetic defects.

Symptoms/injuries after inhalation:
- Shortness of breath. May cause cancer by inhalation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Unsuitable extinguishing media:
- Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard:
- Extremely flammable aerosol.

Explosion hazard:
- Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

5.3. Advice for firefighters

Firefighting instructions:
- Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area.

Protection during firefighting:
- Do not enter fire area without proper protective equipment, including respiratory protection.

Other information:
- Aerosol level 3.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures:
- No naked lights. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Protective equipment:
- Gloves. Safety glasses.

Emergency procedures:
- Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment:
- Equip cleanup crew with proper protection.

Emergency procedures:
- Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment:
- Dam up the liquid spill.

Methods for cleaning up:
- Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use.

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not spray on an open flame or other ignition source. Obtain special instructions. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so.

Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed.

Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Keep container closed when not in use. Do not expose to temperatures exceeding 50 °C/122 °F. Keep in fireproof place.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight. Heat sources.

Storage area: Store in a well-ventilated place.

7.3. Specific end use(s)

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Distillates (Petroleum), Hydrotreated Light (64742-47-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH ACGIH TWA (ppm)</td>
<td>200 ppm 8 Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Distillates (Petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH ACGIH TWA (mg/m³)</td>
<td>5 mg/m³ MIST 8 HOURS</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (mg/m³)</td>
<td>5 mg/m³ MIST 8 HOURS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Petroleum Gases, Liquefied, Sweetened (68476-86-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH ACGIH TWA (ppm)</td>
<td>1000 ppm Listed under Aliphatic hydrocarbon gases alkane C1-C4</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (mg/m³)</td>
<td>1800 mg/m³</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (ppm)</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Local exhaust ventilation, vent hoods.

Personal protective equipment: Avoid all unnecessary exposure. Gloves. Safety glasses.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear appropriate mask.

Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Light yellow to yellow.</td>
</tr>
<tr>
<td>Odor</td>
<td>Fresh and Clean, sweet.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
### Melting point
No data available

### Freezing point
No data available

### Boiling point
-31.1 °C (Lowest Component, propellant)

### Flash point
-128.9 °C (Lowest Component, propellant)

### Auto-ignition temperature
No data available

### Decomposition temperature
No data available

### Flammability (solid, gas)
No data available

### Vapor pressure
No data available

### Relative vapor density at 20 °C
No data available

### Relative density
0.0805

### Solubility
Insoluble in water.

### Log Pow
No data available

### Log Kow
No data available

### Viscosity, kinematic
No data available

### Viscosity, dynamic
No data available

### Explosive properties
No data available

### Oxidizing properties
No data available

### Explosive limits
No data available

### 9.2. Other information

#### VOC content
24%

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity
No additional information available

#### 10.2. Chemical stability
Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

#### 10.3. Possibility of hazardous reactions
Not established.

#### 10.4. Conditions to avoid

#### 10.5. Incompatible materials
Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity**: Not classified

**Distillates (Petroleum), Hydrotreated Light (64742-47-8)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5000 mg/kg body weight</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 5.28 mg/l/4h Based on lack of mortality and systemic effects</td>
</tr>
</tbody>
</table>

**Distillates (Petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5000 mg/kg body weight</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg body weight</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 5.2 mg/l/4h</td>
</tr>
</tbody>
</table>

**Oleic Acid (112-80-1)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 19200 mg/kg (Rat)</td>
</tr>
</tbody>
</table>

**Fresh and Clean Scent (Mixture)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>4615 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>4520 mg/kg</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**: Not classified

**Serious eye damage/irritation**: Not classified
CHAMPION RX 454 PENETRANT 9 OZ.
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

- Respiratory or skin sensitization: Not classified
- Germ cell mutagenicity: May cause genetic defects.
- Carcinogenicity: May cause cancer.

### Distillates (Petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)

<table>
<thead>
<tr>
<th>IARC group</th>
<th>3</th>
</tr>
</thead>
</table>

- Reproductive toxicity: Not classified
- Specific target organ toxicity (single exposure): Not classified
- Specific target organ toxicity (repeated exposure): Not classified
- Aspiration hazard: Not classified
- Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met.
- Symptoms/injuries after inhalation: Shortness of breath. May cause cancer by inhalation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Oleic Acid (112-80-1)**
- LC50 fish 1: 12 mg/l (33 h; Oncorhynchus kisutch)
- LC50 fish 2: 205 mg/l (96 h; Pimephales promelas)
- Threshold limit other aquatic organisms 1: < 40 mg/l (0.3 h; Echinoidea; Reproduction)

#### 12.2. Persistence and degradability

**CHAMPION RX 454 PENETRANT 9 OZ.**

- Persistence and degradability: Not established.

**Distillates (Petroleum), Hydrotreated Light (64742-47-8)**

- Persistence and degradability: Not established.

**Oleic Acid (112-80-1)**

- Chemical oxygen demand (COD): 2.25 g O₂ /g substance
- ThOD: 2.89 g O₂ /g substance
- BOD (% of ThOD): > % ThOD (5 day(s)) > 0.5

**Petroleum Gases, Liquefied, Sweetened (68476-86-8)**

- Persistence and degradability: Not established.

**Fresh and Clean Scent (Mixture)**

- Persistence and degradability: Not established.

#### 12.3. Bioaccumulative potential

**CHAMPION RX 454 PENETRANT 9 OZ.**

- Bioaccumulative potential: Not established.

**Distillates (Petroleum), Hydrotreated Light (64742-47-8)**

- Bioaccumulative potential: Not established.

**Oleic Acid (112-80-1)**

- Log Pow: 5.24 - 7.18 (QSAR)
- Bioaccumulative potential: Not established.

**Petroleum Gases, Liquefied, Sweetened (68476-86-8)**

- Bioaccumulative potential: Not established.

**Fresh and Clean Scent (Mixture)**

- Bioaccumulative potential: Not established.

#### 12.4. Mobility in soil

**Oleic Acid (112-80-1)**

- Surface tension: 0.033 N/m (20 °C)

#### 12.5. Other adverse effects

Other information: Avoid release to the environment.
**SECTION 13: Disposal considerations**

<table>
<thead>
<tr>
<th>13.1. Waste treatment methods</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste disposal recommendations</td>
<td>Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.</td>
</tr>
<tr>
<td>Additional information</td>
<td>Flammable vapors may accumulate in the container.</td>
</tr>
<tr>
<td>Ecology - waste materials</td>
<td>Avoid release to the environment.</td>
</tr>
</tbody>
</table>

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

| US DOT (ground): | UN1950, Aerosols, 2.1, Limited Quantity |
| ICAO/IATA (air): | UN1950, Aerosols, 2.1, Limited Quantity |
| IMO/IMDG (water): | UN1950, Aerosols, 2.1, Limited Quantity |
| Special Provisions: | N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols. |

<table>
<thead>
<tr>
<th>14.2. UN proper shipping name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name (DOT)</td>
<td>Aerosols</td>
</tr>
<tr>
<td></td>
<td>flammable, (each not exceeding 1 L capacity)</td>
</tr>
<tr>
<td>Department of Transportation (DOT) Hazard Classes</td>
<td>2.1 - Class 2.1 - Flammable gas 49 CFR 173.115</td>
</tr>
<tr>
<td>Hazard labels (DOT)</td>
<td>2.1 - Flammable gas</td>
</tr>
</tbody>
</table>

| DOT Special Provisions (49 CFR 172.102) | N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols. |
| DOT Packaging Exceptions (49 CFR 173.xxx) | 306 |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | None |
| DOT Packaging Bulk (49 CFR 173.xxx) | None |

<table>
<thead>
<tr>
<th>14.3. Additional information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Other information</td>
<td>No supplementary information available.</td>
</tr>
</tbody>
</table>

**Overland transport**

No additional information available

**Transport by sea**

| DOT Vessel Stowage Location | A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel. |
| DOT Vessel Stowage Other    | 48 - Stow “away from” sources of heat.87 - Stow “separated from” Class 1 (explosives) except Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials |

**Air transport**

| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | 75 kg |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | 150 kg |

**SECTION 15: Regulatory information**

<table>
<thead>
<tr>
<th>15.1. US Federal regulations</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHAMPION RX 454 PENETRANT 9 OZ.</td>
<td></td>
</tr>
<tr>
<td>SARA Section 311/312 Hazard Classes</td>
<td></td>
</tr>
<tr>
<td>Delayed (chronic) health hazard</td>
<td></td>
</tr>
<tr>
<td>Fire hazard</td>
<td></td>
</tr>
<tr>
<td>Immediate (acute) health hazard</td>
<td></td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td></td>
</tr>
<tr>
<td>Distillates (Petroleum), Hydrotreated Light (64742-47-8)</td>
<td></td>
</tr>
<tr>
<td>SARA Section 311/312 Hazard Classes</td>
<td></td>
</tr>
<tr>
<td>Immediate (acute) health hazard</td>
<td></td>
</tr>
<tr>
<td>Delayed (chronic) health hazard</td>
<td></td>
</tr>
<tr>
<td>Distillates (Petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)</td>
<td></td>
</tr>
<tr>
<td>SARA Section 311/312 Hazard Classes</td>
<td></td>
</tr>
<tr>
<td>Delayed (chronic) health hazard</td>
<td></td>
</tr>
</tbody>
</table>
**Oleic Acid (112-80-1)**
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Petroleum Gases, Liquefied, Sweetened (68476-86-8)**
- SARA Section 311/312 Hazard Classes
  - Immediate (acute) health hazard
  - Fire hazard
  - Sudden release of pressure hazard

**Fresh and Clean Scent (Mixture)**
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

**CANADA**

**CHAMPION RX 454 PENETRANT 9 OZ.**
- WHMIS Classification
  - Class B Division 5 - Flammable Aerosol

**Distillates (Petroleum), Hydrotreated Light (64742-47-8)**
- WHMIS Classification
  - Uncontrolled product according to WHMIS classification criteria

**Fresh and Clean Scent (Mixture)**
- Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations**

**Oleic Acid (112-80-1)**

**Fresh and Clean Scent (Mixture)**
- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**
- Carc. Cat. 1: R45
- Muta. Cat. 2: R46
- F+: R12

Full text of R-phrases: see section 16

### 15.2.2. National regulations

**Oleic Acid (112-80-1)**
- Listed on AICS (Australian Inventory of Chemical Substances)
- Listed on the Korean ECL (Existing Chemicals List)

**Fresh and Clean Scent (Mixture)**
- Listed on AICS (Australian Inventory of Chemical Substances)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

### 15.3. US State regulations

No additional information available

### SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asp. Tox. 1</td>
<td>Aspiration hazard Category 1</td>
</tr>
<tr>
<td>Carc. 1A</td>
<td>Carcinogenicity Category 1A</td>
</tr>
<tr>
<td>Compressed gas</td>
<td>Gases under pressure Compressed gas</td>
</tr>
<tr>
<td>Flam. Aerosol 1</td>
<td>Flammable aerosol Category 1</td>
</tr>
<tr>
<td>Flam. Gas 1</td>
<td>Flammable gases Category 1</td>
</tr>
<tr>
<td>Flam. Liq. 1</td>
<td>Flammable liquids Category 1</td>
</tr>
</tbody>
</table>
Champion Rx 454 penetrant 9 oz.

Safety data sheet

According to federal register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and regulations

Flam. liq. 3: Flammable liquids Category 3
Muta. 1B: Germ cell mutagenicity Category 1B
H220: Extremely flammable gas
H222: Extremely flammable aerosol
H224: Extremely flammable liquid and vapor
H226: Flammable liquid and vapor
H280: Contains gas under pressure; may explode if heated
H304: May be fatal if swallowed and enters airways
H340: May cause genetic defects
H350: May cause cancer

NFPA health hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard: 3 - Liquids and solids that can be ignited under almost all ambient conditions.
NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III rating
Health: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability: 3 Serious Hazard
Physical: 1 Slight Hazard
Personal Protection: B

SDS US (GHS HazCom 2012) - TCC

The supplier identified in section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require child resistant closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product.

Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.