



## SPECIALIZED LUBRICANTS

### 1. Substance/Product Identification

**Product Name:** 739 Citrol II (bulk)

**Company/Address:** Schaeffer Mfg

102 Barton Street

Saint Louis, Missouri 63104

USA

**Synonyms:** Terpene hydrocarbons

**Preparation/Revision Date:** 08/03/2010

**Product Use/Type:** Degreaser

**Emergency Phone Number:** +1 314 865-4105 (24-hour response number)

+ 1 314 865-4100 (Business hours 8:30AM-5:00PM)

1-800-325-9962 (US & Canada)

**Website:** [www.schaefferoil.com](http://www.schaefferoil.com)

**MSDS Number:** 739 Bulk Version 1.0

### 2. Hazards Identification

**Appearance:** Colorless to pale yellow

**Odor:** Citrus aroma

**Principal Hazards:** Flammable, irritating to skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects to aquatic environment

**Hazardous Materials Information System  
(U.S.A)**

Health: 1

Fire: 2

Reactivity: 0

**National Fire Protection Agency System  
(U.S.A.)**

Health: 1

Fire: 2

Reactivity: 0

See Section 11 for complete health hazard information

**Product Name: 739 Citrol II (bulk)**

### **3. Composition and Information on Ingredients**

#### **Hazardous Ingredients**

<b>Ingredient Name</b>	<b>CAS No.</b>	<b>EU Number</b>	<b>Percentage (by wt.)</b>
D-limonene	5989-27-5	227-813-5	100

### **4. First Aid Measures**

**Ingestion:** If swallowed, do not induce vomiting. Rinse mouth with water. Do not administer anything by mouth to an unconscious person. Seek medical attention immediately

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids while flushing to rinse the entire surface of the eye and lids with water. Seek medical attention immediately

**Inhalation:** Remove to fresh air. If breathing is difficult administer oxygen. Seek medical attention immediately if upper respiratory tract irritation persists

**Skin:** Wash with plenty of soap and water. Launder contaminated clothing. Seek medical attention if skin irritation develops or persists

**Additional Information:** Treat symptomatically and supportively

### **5. Fire Fighting Measures:**

**Flash Point:** 118°F (48°C) Tag Closed Cup

**Extinguishing Media:** Use water spray, dry chemical foam, or carbon dioxide foam. Use water spray to cool fire-exposed containers to prevent pressure build up, auto ignition or explosions. This liquid floats on water and may travel to source of ignition and spread fire.

**Firefighting Procedures:** Wear full protective clothing and positive pressure breathing apparatus

**Unusual Fire & Explosion:** Vapors can be denser than air and travel back to ignition source

**Hazards:** Sensitive to static discharge

**Product Name: 739 Citrol II (bulk)**

## **6. Accidental Release Measures**

**Spill Procedures and Clean up methods:** Eliminate sources of ignition. Contain spill and recover liquid when possible. Absorb spills with absorbent material. Use non-sparking tools and equipment. Keep out of drains, sewers, ditches and waterways. Forms a smooth, slippery surface on floors, posing an slip hazard risk.

**Personal Precautions:** Avoid contact with skin and eyes. Avoid inhalation of vapors. Wear appropriate personal protective equipment when cleaning up a spill

**Environmental Precautions:** This product should be kept out of watercourses and waterways. If spilled into waterways, watercourses, lakes or streams this material may be toxic to aquatic life.

## **7. Handling & Storage**

**Handling:** Ground and bond containers when transferring this material. Wash thoroughly after handling and before eating, smoking or using toilet facilities. Do not swallow product. Do not inhale vapors or mists. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, sparks or open flames.

**Storage:** Do not store product at elevated temperatures. Store the product as a flammable or combustible liquid. Store in a cool dry place that has adequate ventilation. Do not store near food or feed products. Separate from oxidizing materials. Keep containers closed when not in use. Keep away from direct sunlight

## **8. Exposure Controls and Personal Protection**

### **Occupational Exposure Limits**

<b>Ingredient</b>	<b>OSHA TWA</b>	<b>OSHA STEL</b>	<b>ACGIH TWA</b>	<b>ACGIH STEL</b>
D-limonene	30 ppm 8hr TWA AIHA standard			

(s)-Skin exposure

(p) proposed limit

(c) – Ceiling limit

(l) Recommended exposure limit

(u) supplier limit

(N/E) – not established

**Product Name: 739 Citrol II (bulk)**

**Engineering Controls:** Local exhaust ventilation recommended if any vapors, dust or mists are generated. If exhaust

**Personal Protective Equipment**

**Gloves:** Chemical resistant gloves

**Protective Clothing:** Apron and long sleeves recommended

**Eye Protection:** Chemical resistant type goggles should be worn. Avoid wearing contact lenses.

**Respiratory Protection:** Airborne concentrations should be kept at the lowest levels possible. If any vapors or mists are generated and the occupational exposure limit of the product is exceeded, use appropriate NIOSH or MSHA approved respirator

**9. Physical and Chemical Properties**

**Flash Point:** 118°F (48°C) Tag Closed Cup

**Specific Gravity:** 0.838 to 0.843 g/m<sup>3</sup>

**Upper Flammable Limit (UEL):** 6.10% volume

**Lower Flammable Limit (LEL):** 0.7% volume

**Vapor Pressure:** 1.4mm Hg @ 20°C

**Vapor Density (air =1):** Heavier than air

**Percent Volatile:** 100% VOC content

**Evaporation Rate:** 0.2 (butyl acetate =1)

**pH:** not available

**Boiling Point:** 349°F (176° C)

**Freezing/Melting Point:** -101°F (-74°C)

**Appearance:** Colorless to pale yellow

**Odor:** Citrus aroma

**Solubility in Water:** Insoluble

***The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise specified***

**10. Stability and Reactivity**

**Stability:** Stable under normal conditions

**Materials to Avoid:** Strong oxidizing and reducing agents and acids.

**Polymerization:** Will not occur

**Thermal Decomposition:** Carbon monoxide, carbon dioxide, aldehydes and ketones may be formed on burning.

**Conditions**

**Product Name: 739 Citrol II (bulk)**

**11. Toxicological Information:**

**Routes of Exposure:** Skin, eyes, ingestion and inhalation

**Target Organs:** skin, eyes, upper respiratory tract,

**Acute Exposure**

**Ingestion:** May be harmful if swallowed. May cause abdominal discomfort, nausea and diarrhea

**Eye Contact:** May cause severe irritation, experienced as discomfort or pain, excess redness and swelling of the eye. Possible injury to the cornea

**Skin Contact:** Prolonged contact such as with clothing wetted with the product may cause severe irritation and discomfort that can be seen as redness and swelling.

**Inhalation:** Vapors or mists, especially as generated from heating the material or as exposure in poorly ventilated areas or confined spaces, may be irritating and cause discomfort in the nose, throat, nasal discharge and coughing.

**Dermal Sensitization:** May irritate skin of people with pre-existing conditions

**Inhalation Sensitization:** Sensitization properties are unknown. There are no known adverse effects that have been documented in humans as a result of chronic exposure.

**Carcinogenicity:** Product's components are not listed by ACGIH, IRAC, NIOSH, NTP or OSHA

**Additional Toxicological Information:**

**Acute Toxicity**

**D-Limonene**

**Oral LD50:** 5,600 mg/kg (mice)

4,400 mg/kg (rat)

**Dermal LD50:** >5,000 mg/kg (rabbit)

**Inhalation LC50:** >1,000 mg/kg (mice)

**Product Name: 739 Citrol II (bulk)**

## **12. Environmental and Ecological Information**

### **Ecotoxicity**

#### **D-Limonene**

**LC50 (96 hour)** - 80 – 88.7 mg/l (rainbow trout)

**LC50 (48 hour)** – 6.4 mg/l (Daphnia magna)

### **Environmental Fate**

**Biodegradation:** This product is readily biodegradable by the Modified OECD Sturm 301B Method

**Bioaccumulation:** This product is not expected to bioaccumulate

**Water Class Hazard (Germany):** WK-2 according to appendix 4 VwVwS dated 27.7.2005

## **13. Disposal Considerations**

**Waste Handling and Disposal:** Dispose of product in accordance with all applicable local, state, provincial and Federal rules and regulations. This product in its neat form is considered to be a RCRA hazardous waste due to its flammability (D001)

## **14. Transport Information**

**US DOT Classification Non-Bulk:** UN 2319, Terpene Hydrocarbons, N.O.S., (D-Limonene, 3, PG III)

**US DOT Classification Bulk:** 5 gallon, 30 gallon and 55 gallon drums: UN 2319, Terpene Hydrocarbons, N.O.S., (D-Limonene, 3, PG III)

4X1 gallon cases: UN 2319, Terpene Hydrocarbons, N.O.S., (D-Limonene, 3, PG III, Limited quantity)

**IMDG Classification:** UN 2319, Terpene Hydrocarbons, N.O.S., (D-Limonene, 3, PG III, Flash Point 48°C Tag Closed Cup)

**IATA/ICAO Classification:** 5 gallon, 30 gallon and 55 gallon drums: UN 2319, Terpene Hydrocarbons, N.O.S., (D-Limonene, 3, PG III)

4X1 gallon cases: UN 2319, Terpene Hydrocarbons, N.O.S., (D-Limonene, 3, PG III, Limited quantity)

**Product Name: 739 Citrol II (bulk)**

**15. Regulatory Information**

**Hazard Symbols**



**Xi N harmful**

**US Regulations**

**TSCA Inventory:** All of the components in this material are on the US TSCA Inventory or are exempt.

**State of California Proposition 65:** This product does not contain any of the chemicals found on the State of California's Proposition 65 List as possible cancer causing agents or reproductive toxins.

**US EPA SARA Title III and CERCLA Listings and Reportable Quantities**

**US EPA Section 311/313 Classifications**

Acute (Immediate)	Chronic (Delayed)	Fire	Reactive	Pressure Generating
X		X		

**US EPA Section 313 Chemicals**

This product does not contain any of the chemical found on the EPA's SARA Title III Section 313 or CERCLA 302 lists.

**US Tariff Heading Number:** 3402.90.5030

**Schedule B Number:** 3402.90.5030

**Product Name:**

**Other Regulations:**

**Canada:** All of the ingredients of this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substance List

**Canadian WHMIS Classifications and Symbols:**



**EEC:** All components are in compliance with the EC Seventh Amendment Directive 92/32/EEC

Risk Phrases:

R10 – Flammable

R38 – Irritating to skin

R 43 – May cause sensitization to skin

R 50/53 – Very toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment

Safety Phrases:

S24 – Avoid contact with skin

S37 – Wear suitable gloves

S60 – This material and/or its container must be disposed of as a hazardous waste

S61 – Avoid release to the environment. Refer to special instructions/Safety data sheets

## **16. Other Information**

**For additional information call +1 314-865-4100 (outside the US and Canada) or 1-800-325-9962 inside the United States and Canada.**

Although the information and recommendations set forth herein (hereafter referred to as information) are presented in good faith and believed to be accurate and factual as of the date hereof, Schaeffer Mfg. Company makes no representation as to the completeness or accuracy thereof. Information is supplied upon the condition that the person receiving the same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Schaeffer Mfg. Company be responsible for damages of any natures whatsoever resulting from the use or reliance upon information. **No representation or warranty, either expressed or implied, of merchantability or fitness for a particular purpose is made with respect to information of the product to which the information refers. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.**



