



SPECIALIZED LUBRICANTS

1. Substance/Product Identification

Product Name: 739 Citrol II Spray
Company/Address: Schaeffer Mfg
102 Barton Street
Saint Louis, Missouri 63104
USA

Synonyms:

Preparation/Revision Date: 08/03/2010

Product Use/Type: Solvent 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

MSDS Number: 739 Spray Version 1.0

2. Hazards Identification

Appearance: Straw color

Odor: Citrus aroma

Principal Hazards: Danger. Extremely Flammable. Harmful by inhalation. Maybe irritating to skin and eyes. May cause sensitization by skin contact. Contents under pressure. Container explode if heated.

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

**Health: 1
Fire: 4
Reactivity: 0**

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

**Health: 1
Fire: 4
Reactivity: 0**

See Section 11 for complete health hazard information

Product Name: 739 Citrol II Spray

3. Composition and Information on Ingredients

Hazardous Ingredients

Ingredient Name	CAS No.	EU Number	Percentage (by wt.)
D-limonene	5989-27-5	227-813-5	30-60
Soybean oil, methyl ester	67784-80-9	267-055-2	30-60
Carbon dioxide (propellant)	124-38-9	204-696-9	1-5

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:

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: Aerosol containers may explode when heated

Product Name: 739 Citrol II Spray

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: Keep away from sources of ignition. Wash thoroughly after handling and before eating, smoking or using toilet facilities. Do not swallow product. Do not inhale vapors or mists. Do not 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. Do not store above 120°F (49°C)

8. Exposure Controls and Personal Protection

Occupational Exposure Limits

Ingredient	OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
D-limonene	30 ppm 8hr TWA AIHA standard			
Soybean oil, methyl ester	5.0 mg/m ³		5.0 mg/m ³	
Carbon dioxide (propellant)	5000 ppm		5000 ppm	

(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 Spray

Engineering Controls: Local exhaust ventilation recommended if any vapors, dust or mists are generated. . If applicable use process enclosures, local exhaust ventilation and other engineering controls to maintain airborne levels below recommended exposure limits.

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: 0.874 g/m³ (concentrate only)

Upper Flammable Limit (UEL): Not determined

Lower Flammable Limit (LEL): Not determined

Vapor Pressure: Not determined

Vapor Density (air =1): Heavier than air

Percent Volatile: 45% VOC content

Evaporation Rate: Not determined

pH: Not determined

Boiling Point: 349°F (176° C)

Freezing/Melting Point: Not determined

Appearance: Straw color

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 to avoid: Do not puncture cans. Contents under pressure

Product Name: 739 Citrol II Spray

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. May cause lung damage if swallowed.

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. This product may be aspirated into the lungs and cause irritation.

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 Spray

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: ORM-D

US DOT Classification Bulk: Not applicable

IMDG Classification: UN 1950 Aerosols (D-Limonene), 2.1, Limited Quantity

IATA/ICAO Classification: UN 1950 Aerosols (D-Limonene), 2.1, Limited Quantity

Product Name: 739 Citrol II Spray

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		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: 739 Citrol II Spray

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**

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