



## SPECIALIZED LUBRICANTS

# 1. Substance/Product Identification

Product Name: 266 Citrol® Concentrate Spray

Company/Address: Schaeffer Mfg

**102 Barton Street** 

Saint Louis, Missouri 63104

USA

Synonyms:

Preparation/Revision Date: 08/01/2010

Product Use/Type: Citrus based water soluble 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: <u>www.schaefferoil.com</u> MSDS Number: 266 Version 1.0

#### 2. Hazards Identification

Appearance: Light yellow to orange color liquid

Odor: Citrus odor

Principal Hazards: Flammable Can form explosive gas-air mixtures. Risk of explosion upon heating of aerosol cans, Irritation to eyes, skin and upper

respiratory tract.

**Hazardous Materials Information System** 

(U.S.A)

Health: 2

Fire: 4

Reactivity: 0:

**National Fire Protection Agency System** 

(U.S.A.)

Health: 2

Fire: 4

Reactivity: 0

See Section 11 for complete health hazard information

# 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 - 50
Poly(oxy-1,2- ethanediyl),alpha- (nonylphenyl)- omega-hydroxy	9016-45-9	500-024-8	3-6
Cocoamide DEA	68603-42-9	271-657-0	4 – 6.5
Diethanolamine	111-42-2	203-868-0	0.7 - 3
2-butoxyethanol	111-76 <b>-</b> 2	203-905-0	8 - 13
Propane/isobutane Blend	74-98-6/75-28-5	200-829-7/200-857-	15-20

#### 4. First Aid Measures

**Ingestion:** Do not induce vomiting. Rinse mouth with water. Do not administer anything by mouth to an unconscious person. Do not leave victim unattended. 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:** Base product - 128°F (53°C) PMCC Flammable per USA Flame Projection Test for aerosols.

**Extinguishing Media:** Use water spray, dry chemical foam, or carbon dioxide. Use water spray to cool fire-exposed containers to prevent pressure build up, auto ignition or explosions

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

Contents of product are under pressure. Heating leads to increase in pressure resulting in the danger of bursting and explosion of the aerosol cans. Can form explosive mixtures with air if heated above the flash point and/or when sprayed or atomized. **Hazards:** Contents of product are under pressure. Heating leads to increase in pressure resulting in the danger of bursting and explosion of the aerosol cans.

#### 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. **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: Wash thoroughly after handling and before eating, smoking or using toilet facilities. Do not swallow product. Do not inhale vapors or mists.

**Storage:** Do not store product at elevated temperatures. Store 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. Keep containers closed when not in use. Keep away from direct sunlight. Keep product from freezing.

## 8. Exposure Controls and Personal Protection

**Occupational Exposure Limits** 

Ingredient	OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
D-Limonene	NE	N/E	NE	N/E
Poly(oxy-1,2- ethanediyl),alpha- (nonylphenyl)- omega-hydroxy	N/E	N/E	N/Ē	N/E
Cocoamide DEA	N/E	N/E	N/E	N/E
Diethanolamine	3 ppm 15 mg/m <sup>3</sup>		2 mg/m <sup>3</sup>	
2-butoxyethanol	50 ppm		20 ppm	75 ppm
Propane/isobutane Blend	2500/800 ppm		1000/800 ppm	

- (s)-Skin exposure
- (p) proposed limit
- (c) Ceiling limit
- (I) Recommended exposure limit
- (u) supplier limit
- (N/E) not established

Other Exposure Limits: None

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: Base product -128°F (53°C) PMCC

Specific Gravity: 0.9366

Upper Flammable Limit (UEL): Not determined Lower Flammable Limit (LEL): Not determined

Vapor Pressure: 17.5 mm, Hg @ 20°C Vapor Density (air =1): Heavier than air Percent Volatile: VOC content is 50 -55%

**Evaporation Rate:** Not determined

**pH:** 9-10

**Boiling Point:** 207°F (97°C) **Melting Point:** Not applicable

Appearance: Light yellow to orange color liquid

Odor: Citrus odor

Solubility in Water: Emulsifiable

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: Can form explosive mixtures with air if heated above flash point

and/or when sprayed or atomized. Aerosol cans may explode if heated.

### 11. Toxicological Information:

Routes of Exposure: Skin, eyes, ingestion and inhalation

Target Organs: skin, eyes, upper respiratory tract, kidney, liver, lymphatic system or

central nervous system

### **Acute Exposure**

Ingestion: May be harmful is 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 does not contain any components listed by ACGIH, IRAC, NIOSH, NTP or OSHA

Additional Toxicological Information: Chronic exposure to 2-butoxyethanol may cause kidney and/or liver damage

# 11. Toxicological Information:

### **Acute Toxicity**

Poly(oxy-1,2-ethanediyl),alpha-(nonylphenyl)-omega-hydroxy

Oral LD50: 2,000 to 5,000 mg/kg (rat) Dermal LD50: 2,000 mg/kg (rabbit)

#### **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)

#### Cocoamide DEA

Oral LD50: >10,000 mg/kg (rat)

#### Diethanolamine

Oral LD50: 710 – 2,300 mg/kg (rat) Dermal LD50: 12,000 mg/kg (rabbit)

#### 2-Butoxyethanol

Oral LD50: 470 mg/kg (rat)

Dermal LD50: 220 mg/kg (rabbit)

#### **Propane**

Acute Inhalation Toxicity: LC50 800,000 mg/m3 (rat)

Acute Oral Toxicity LD50: Acute Dermal Toxicity: LD50:

#### Isobutane

Acute Inhalation Toxicity: LC50 570,000 mg/m3 (rat)

Acute Oral Toxicity LD50: Acute Dermal Toxicity: LD50:

### 12. Environmental and Ecological Information

### **Ecotoxicity**

### Poly(oxy-1,2-ethanediyl),alpha-(nonylphenyl)-omega-hydroxy

LC50 (96 hours) – Typical aquatic toxicity rating is 1-15 ppm for exthoxylated nonyolphenols. Moderately toxic to aquatic life.

Exthoxylated nonyolphenols are considered to be endocrine disruptors in the EU

#### Diethanolamine

LC50 (96 hours) - >589 mg/l (Cyprindon variegatius)

LC50 (24 hours) - 5000 mg/l

LC50 (96 hours) - 1460 mg/l (Pimphalas promieus)

**EC50 (24 hours)** – 180 mg/l (Daphina magna)

#### Cocoamide DEA

**LD50 (96 hours)** – 2.6 to 13.76 mg/l (Fish, fresh water)

EC50 (48 hours) - 2.39 mg/l (Daphina pulex)

#### **D-Limonene**

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

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

### 2-Butoxyethanol

LC50 (96 hour) - >100 mg/l (fish)

#### **Environmental Fate**

Biodegradation: This product is 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

**Product Name: 266 Citrol Concentrate Bulk** 

# 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 if 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: UN1950. Aerosols, (D-limonene, 2-butoxyethanol, propane,

isobutane), 2.1, Limited Quantity

IATA/ICAO Classification: Product can not be shipped by air. Aerosol cans do not

meet IATA packaging regulations

# 15. Regulatory Information

### **Hazard Symbols**







(EU only due to presence of Exthoxylated nonyolphenols)

Xi Irritant

# 15. Regulatory Information

#### **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 contains 8 - 13% 2-Butoxyethanol

US Tariff Heading Number: 3402.90.5030

**Schedule B Number: 3402.90.5030** 

#### 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

#### 16. Other Information

This product can not be sold in the State of California or those States that have VOC restrictions for retail use due to the VOC content of the product.

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

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