



## **SPECIALIZED LUBRICANTS**

## 1. Substance/Product Identification

Product Name: 561 EcoShield™ Biodegradable Airline Oil ISO 32, 46, 68

**Company/Address: 102 Barton St** 

Saint Louis, Missouri, 63104 USA

Synonyms: None

Preparation/Revision Date: January 26, 2010

Product Use/Type: Anti-wear lubricant for airines and pneumatic tools 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: <a href="www.schaefferoil.com">www.schaefferoil.com</a> MSDS Number: 561 Version 1

#### 2. Hazards Identification

**Appearance:** Yellow to Amber color

**Odor:** Mild vegetable odor

**Principal Hazards:** Eye, skin and upper respiratory tract irritation

**Hazardous Materials Information System** 

(U.S.A) Health: 1

Fire: 1

Reactivity: 0:

**National Fire Protection Agency System** 

(U.S.A.)

Health: 1 Fire: 1

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.)
Mixture of	120962-03-0		55-70
Vegetable oils	8001-22-7	232-2704	
Trimethylolpropane trioleate	57675-44-2	260-895-0	25-30
2-6-di-tert-butyl phenol	128-39-2	204-884-0	<0.8

#### 4. First Aid Measures

**Ingestion:** Do not induce vomiting. Give one or two glasses of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention

**Eyes:** Immediately flush with clean water for 15 minutes. If irritation, redness or itching persists seek medical attention.

**Inhalation:** Remove victim to fresh air. If breathing is difficult administer oxygen by trained personnel. If upper respiratory tract irritation, headache, nausea, or drowsiness occurs If upper respiratory tract irritation, headache, nausea, or drowsiness occurs remove to fresh air. Get immediate medical attention if breathing becomes difficult or symptoms persist.

**Skin:** Remove contaminated clothing and launder before reuse. Wash skin with large amounts of soap and water. Seek medical attention if irritation develops

**Additional Information: None** 

## 5. Fire Fighting Measures:

Flash Point: 397° to 466°F (203° to 244°C) Cleveland Open Cup ASTM D-92

Extinguishing Media: Dry chemical foam, water-fog, carbon dioxide

**Firefighting Procedures:** As in any fire wear a self contained breathing apparatus pressure demand, MSHA/NIOSH (Approved or Equivalent) and full protective gear

Unusual Fire & Explosion: Dense black smoke

Hazards: None

#### 6. Accidental Release Measures

**Spill Procedures and Clean up methods:** Use absorbent materials to contain spill. Collect used absorbent material and discard as dictated by Federal, State and local laws and regulations. Keep out of sewers and watercourses

**Personal Precautions**: Wear appropriate personal protective equipment when cleaning up a spill

**Environmental Precautions:** Though this product is biodegradable, all oil spills even those of vegetable oil base products must be reported to the National Response Center (U.S. Coast Guard) if they are spilled into rivers, creeks, streams or other natural waterways or courses. The Coast Guard Toll Free No. 800-424-8802

## 7. Handling & Storage

**Handling:** Avoid all contact of product with eyes and skin. Wash thoroughly after handling and before eating, smoking or using toilet facilities. Do not swallow product. Do not inhale vapors or mists. Do not eat, drink or smoke in work areas.

**Storage:** Do not store product at elevated temperatures. 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.

# 8. Exposure Controls and Personal Protection

**Occupational Exposure Limits** 

Occupational Exposure Ellints						
Ingredient	OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL		
Mixture of	15 mg/m <sup>3</sup>		10 mg/m <sup>3</sup>			
Vegetable oils	(1)		(I)			
Trimethylolpropane	N/E	N/E	N/E	N/E		
trioleate	NI/E	NI/E	NI/E	NI/E		
2-6-di-tert-butyl	N/E	N/E	N/E	N/E		
phenol						

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

### **Other Exposure Limits**

**Engineering Controls:** Good general ventilation should be used. If applicable use process enclosures, local exhaust ventilation and other engineering controls to maintain airborne levels below recommended exposure limits.

## **Personal Protective Equipment**

Gloves: Impervious oil resistant gloves such as Neoprene, Nitrile rubber

Protective Clothing: Apron and long sleeves recommended

**Eye Protection:** Chemical goggles or safety goggles

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits where applicable or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. If a respirator must be used use a air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter cartridge or canister. Contact health and safety professional for specific information.

# 9. Physical and Chemical Properties

Flash Point: 397° to 466°F (203° to 244°C) Cleveland Open Cup ASTM D-92

Specific Gravity: 0.9048 to 0.9259

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: Evaporation Rate: pH: Not applicable

**Boiling Point:** >392°F (>200°C) **Melting Point:** Not applicable

**Appearance:** Yellow to amber color

Odor: Mild vegetable odor Solubility in Water: Negligible

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 agents

Polymerization: Will not occur

Thermal Decomposition: Carbon dioxide and carbon monoxide. Byproducts of

incomplete combustion

Conditions to Avoid: Avoid breathing mists and vapors

## 11. Toxicological Information:

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

Target Organs: Skin, eyes, upper respiratory tract

#### **Acute Exposure**

**Ingestion:** Nausea, diarrhea

**Eye Contact:** May cause irritation and redness to eyes

**Skin Contact:** Prolonged and repeated contact may cause irritation, redness and

dryness to skin

Inhalation: Heating can generate vapors and mists that can cause nausea, dizziness

and other upper respiratory irritation if inhaled.

**Dermal Sensitization:** Product is not considered to be a dermal sensitizer

**Inhalation Sensitization:** Product is not considered to be an inhalation sensitizer **Carcinogenicity:** Product does not contain any components listed by ACGIH, IRAC,

NIOSH, NTP or OSHA

**Additional Toxicological Information:** No data available to indicate the product or any of its components are present at greater than 0.1% are mutagenic, genotoxic or teatogenic.

#### **Acute toxicity**

Trimethylolpropane trioleate
Oral LD50 >2000 mg/kg body weight

2,6-di-tert-butylphenol
Oral LD50 >5,000 mg/kg (rat)
Dermal LD50 10,000 mg/kg (rabbit)

## 12. Environmental and Ecological Information

## **Ecotoxcity**

Not expected to be harmful to aquatic organisms.

EC50 96 hours >10,000 ppm (Fathead Minnow)

EC50 48 hours >10,000 ppm (Daphina Magna)

EC50 Sludge Respiration Inhibition >10,000 ppm(bacteria)

Depending on the contamination and/or degradation levels, small amounts of spilled or leaked EcoShield™ Biodegradable EP Gear Oil will not adversely affect ground water or the environment. For small spills on the ground uncontaminated product will be readily biodegraded by naturally occurring soil organisms when exposed to air. Nonetheless, spillage of EcoShield™ Biodegradable EP Gear Oil should be handled similarly to currently accepted methods for conventional mineral oil spills.

#### **Environmental Fate**

**Biodegradation:** At least >60% to 90% of this product is biodegradable by the Modified

OECD Sturm 301B Method

Bioaccumulation: This product will not bioaccumulate

Water Class Hazard (Germany): WK-1according to appendix 4 VwVwS dated

27.7.2005

## 13. Disposal Considerations

**Waste Handling and Disposal:** This product in its neat state when discarded or disposed of is not a hazardous waste according to Federal Regulations 40CFR 261.4 (b)(4). Dispose of product in accordance with all applicable Federal, State and local laws and regulations. Do not re-use empty containers

# 14. Transport Information

US DOT Classification Non-Bulk: Not regulated

**US DOT Classification Bulk:** Not regulated

IMDG Classification: Not regulated

IATA/ICAO Classification: Not regulated

# 15. Regulatory Information

## **Hazard Symbols**



Xi Irritant

# **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 that are listed on the State of California's Proposition 65 List as potential cancer causing agents or reproductive toxins

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

#### **US EPA Section 311/313 Classifications**

This product does not contain greater than 1% of any chemical substance listed under the SARA Title III Section 313, CERCLA's 302/304 and 102(a) Lists

#### Section 311/312 (40CFR 370)

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

#### **US EPA Section 313 Chemicals**

Not applicable

**US Tariff Heading Number:** 3403.19.0000

**Schedule B Number:** 3403.19.0000

### 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:** This product is not considered to be a WHMIS controlled product

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

#### 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.