



SPECIALIZED LUBRICANTS

1. Substance/Product Identification

Product Name: 190E Penetro® Green H-1

Company/Address: Schaeffer Mfg
102 Barton Street
Saint Louis, Missouri 63104
USA

Synonyms:

Preparation/Revision Date: 08/08/2013

Product Use/Type: Food grade penetrating oil and chain lubricant

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: 190E version 1.1

2. Hazards Identification

Appearance: Milky white

Odor: petroleum odor



Principal Hazards: Warning! Contact with eyes and skin can cause irritation

See Section 11 for complete health hazard information

Product Name: 190E Penetro® Green H-1

3. Composition and Information on Ingredients

Hazardous Ingredients

Ingredient Name	CAS No.	EU Number	Percentage (by wt.)
Solvent naphtha (petroleum) medium aliphatic	64742-88-7	265-191-7	10-15
Technical white mineral oils	8042-47-5	232-455-8	80 -90
PTFE Fluoropolymer	9002-84-0		<1
Amines C11-14 branched alkyl monohexyl	80939-62-4	270-632-6	<0.5
N-phenylbenzenamine, reaction products with 2,4,4-trimethylpentene	68411-46-1	270-128-1	<0.5

The highly refined petroleum base oils contain <3% w/w DMSO extracts according to the IP 346 Test method

4. First Aid Measures

Ingestion: Do not induce vomiting. Give victim a large amount of water to drink. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs. Seek medical attention immediately

Eyes: Rinse eyes while holding eyelids open for 15 minutes with clear, cool, clean water. Seek medical attention.

Inhalation: Remove victim to fresh air. If breathing is difficult administer oxygen. If breathing has stopped start artificial respiration.

Skin: Wash with soap and water. Remove contaminated clothing and launder. If irritation or rash develops or persists seek medical attention.

Additional Information: : **Ingestion can cause nausea or diarrhea to occur.**

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5. Fire Fighting Measures:

Flash Point: 239°F (115°C) C.O.C ASTM D-93

Extinguishing Media: Carbon dioxide, dry chemical foam, sand, earth, water-fog

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, Provincial 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: This material is not expected to present any environmental problems other than those associated with oil spills if spilled into a watercourse or waterway. The spill must be reported to the National Response Center (U.S. Coast Guard) or the appropriate governmental authorities if the product is spilled into rivers, creeks, streams or other natural waterways or courses. The Coast Guard's Toll Free No. is 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 the product in a cool dry place that has adequate ventilation. Keep containers closed when not in use. Like all products that meet the USDA Pre-1998 and the NSF H-1 category these products should be segregated from non-food grade lubricants and stored with H-1 food grade products in a dedicated storage area in order to avoid the risk of contamination.

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8. Exposure Controls and Personal Protection

Occupational Exposure Limits

Ingredient	OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Solvent naphtha (petroleum) medium aliphatic	2900 mg/m ³ 100 ppm		525 mg/m ³ 100 ppm	
Technical white mineral oils	5.0 mg/m ³		5.0 mg/m ³	
PTFE Fluoropolymer	N/E		N/E	
Amines C11-14 branched alkyl monohexyl	N/E		N/E	
N- phenylbenzenamine, reaction products with 2,4,4- trimethylpentene	N/E		N/E	

(s)-Skin exposure

(p) proposed limit

(c) – Ceiling limit

(l) Recommended exposure limit

(u) supplier limit

(N/E) – not established

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: None required under conditions of normal use

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9. Physical and Chemical Properties

Flash Point: 239°F (115°C) C.O.C ASTM D-93

Specific Gravity: 0.8661g/cm³

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: 10 – 15%

Evaporation Rate: Not determined

pH: Not applicable

Boiling Point: >350°F (>176°C)

Melting Point: Not applicable

Appearance: Milky white

Odor: Petroleum odor

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 conditions of normal use

Materials to Avoid: Strong oxidants and reducing agents

Polymerization: Will not occur

Thermal Decomposition: Carbon dioxide and carbon monoxide. Byproducts of incomplete combustion

Conditions to Avoid: None

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11. Toxicological Information:

Routes of Exposure: Skin, eyes, ingestion and inhalation

Target Organs: Skin, eyes and 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

Additional Toxicological Information:

Acute toxicity

Technical White Mineral Oils

Acute Inhalation Toxicity: LC50 >5,000 mg/m3 (rat)

Acute Oral Toxicity LD50: >2,000 mg/kg (rat)

Acute Dermal Toxicity: LD50: >2,000 mg/kg (rabbit)

Heavy alkylate naphtha

Acute Inhalation Toxicity: LC50 >2,000 mg/m3 (rat)

Acute Oral Toxicity LD50: >2,000 mg/kg (rat)

Acute Dermal Toxicity: LD50: >7.8 mg/l (rat)

N-phenylbenzenamine, reaction products with 2,4,4-trimethylpentene

Acute Inhalation Toxicity: Not determined

Acute Oral Toxicity LD50: >5,000 mg/kg (rat)

Acute Dermal Toxicity: LD50: >2,000 mg/kg (rat)

Amines C11-14 branched alkyl monohexyl

Acute Oral Toxicity LD50: >5,000 mg/kg (rat)

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12. Environmental and Ecological Information

Ecotoxicity

Material -- Not expected to be harmful to aquatic organisms

Environmental Fate

Biodegradation: This product is not readily biodegradable

Bioaccumulation: Product has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

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

Do not allow product to reach ground water, water course or sewage system

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

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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

US EPA Section 313 Chemicals

This product does not contain greater than 1% of the chemicals and substances which are listed on the SARA Title III Section 313, CERCLA's 302/304 and 102(a) Lists

US Tariff Heading Number: 2710.19.3750

Schedule B Number: 2710.19.375

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 hazard

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

Relevant R phrases: R65 Harmful may cause lung damage if swallowed

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16. Other Information

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

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

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

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

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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