



## SPECIALIZED LUBRICANTS

### 1. Substance/Product Identification

**Product Name:** 200S Silver Streak Ultra Light, Extreme Light, Extra Light, Light, Medium and Heavy Grades

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

**Synonyms:** None

**Preparation/Revision Date:** 03/11/2011

**Product Use/Type:** Lubricant for open gears, wire ropes and industrial use

**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:** 200S Version 1.0

### 2. Hazards Identification

**Appearance:** Black color semi solid

**Odor:** Slight hydrocarbon odor

**Principal Hazards:** High pressure injection under the skin may cause serious damage including local necrosis. Eye and skin irritant

**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

**Product Name: 200S Silver Streak Ultra Light, Extreme Light, Extra Light, Light, Medium and Heavy Grades**

**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>
Complex mixture of petroleum base oils	Complex mixture of petroleum base oils can include CAS #'s 64741-88-4 64742-62-7 64742-01-4 64742-16-1 64742-53-6 64742-52-5 64742-58-1	Complex mixture of petroleum base oils can include EU #'s 265-090-8 265-166-0 256-101-6 265-116-8 265-156-6 265-155-0 265-161-3	40 – 75
1-Decene Homopolymer Hydrogenated	68037-01-4	500-183-1	10 – 25
Graphite	7782-42-5	231-953-3	3 – 10
Molybdenum Disulfide	1317-33-5	215-263-9	3 – 10
Dialkylpolysulfide	68937-96-2	273-103-3	1 - 5
Amine phosphate	91745-46-9	294-716-2	1 - 3
Polyisobutylenes	9003-27-3		1 - 7
Carbon Black	1333-86-4	215-609-9	3-10
Organophilic Clay	71011-25-1	275-125-9	2-8

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

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**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:** Aspiration into lungs may result in chemical pneumonitis. Dermatitis may result from prolonged or repeated exposure. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy to minimize tissue damage and loss of function.

**5. Fire Fighting Measures:**

**Flash Point:** >140°C (>248°F) ASTM D-93 Pensky Martan Closed Cup Method  
>180°C (>356°F) ASTM D-92 Cleveland Open Cup Method

**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:** Hazardous combustion products may include a complex mixture of airborne solids and liquid particulates and gases, Carbon monoxide and unidentified organic and inorganic compounds

**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, regional, national and local laws and regulations. Keep out of sewers and watercourses

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

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**6. Accidental Release Measures**

**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. If spilled in United States navigable waters 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 National Response Center's Toll Free No. is 800-424-8802. If spilled into international or national waters report spill in accordance with all relevant international, national, provincial and local laws and regulations.

**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.

**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>
Complex mixture of petroleum base oils	5 mg/m <sup>3</sup>		5 mg/m <sup>3</sup>	
1-Decene Homopolymer Hydrogenated	5 mg/m <sup>3</sup>		5 mg/m <sup>3</sup>	
Graphite	15 mg/m <sup>3</sup> (Total dust)		3 mg/m <sup>3</sup> (Respirable fraction)	
Molybdenum Disulfide	15 mg/m <sup>3</sup> (total dust)		3.5 mg/m <sup>3</sup>	
Dialkylpolysulfide	N/E		N/E	
Amine phosphate	N/E		N/E	
Polyisobutylene	N/E		N/E	

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

**Occupational Exposure Limits**

<b>Ingredient</b>	<b>OSHA TWA</b>	<b>OSHA STEL</b>	<b>ACGIH TWA</b>	<b>ACGIH STEL</b>
Carbon Black	3.5 mg/m <sup>3</sup>		3.5 mg/m <sup>3</sup>	
Organophilic Clay	NE		NE	

- (s)-Skin exposure
- (p) proposed limit
- (c) – Ceiling limit
- (l) 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, PVC, 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:** >140°C (>248°F) ASTM D-93 Pensky Martan Closed Cup Method  
>180°C (>356°F) ASTM D-92 Cleveland Open Cup Method

**Specific Gravity:** 1.03 – 1.08

**Upper Flammable Limit (UEL):** 1 (based on mineral oil)

**Lower Flammable Limit (LEL):** 10% (based on mineral oil)

**Vapor Pressure:** Not determined

**Vapor Density (air =1):** >1 (estimated value)

**Percent Volatile:** Nil

**Evaporation Rate:** Not determined

**pH:** Not applicable

**Boiling Point:** Base Oils >600°F (315°C)

**Melting Point:** >500°F (260°F) (dropping point)

**Appearance:** Black color

**Odor:** Slight hydrocarbon 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 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

**Product Name: 200S Silver Streak Ultra Light, Extreme Light, Extra Light, Light, Medium and Heavy Grades**

**11. Toxicological Information:**

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

**Target Organs:** Skin, eye, 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. Used product may contain harmful impurities that have accumulated during use. The concentration of such harmful impurities will depend on use and they may present risks to health and the environment on disposal. All used grease should be handled with caution and skin contact avoided as far as possible.

**Acute toxicity**

**Petroleum base oils**

**Acute Inhalation Toxicity:** LC50 >5,000 mg/m<sup>3</sup> (rat)

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

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

**1-Decene Homopolymer, Hydrogenated**

**Acute Oral Toxicity:** LD50 / rat / > 5000 mg/kg / based on data for a similar material.

**Acute Dermal Toxicity:** LD50 / rat / > 2000 mg/kg

**Acute Inhalation Toxicity:** LC50 / not known / based on data for a similar material

**Organophilic Clay**

**Acute Oral Toxicity:** LD50 / rat / > 8,000 mg/kg

**Acute Dermal Toxicity:**

**Acute Inhalation Toxicity:**

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### **11. Toxicological Information**

#### **Polyisobutylene**

**Acute Oral Toxicity:** LD50 / rat / > 34,600 mg/kg

**Acute Dermal Toxicity:** LD50/rat/>10,250 mg/kg

**Acute Inhalation Toxicity:** LC50/rat/>4,280 mg/m<sup>3</sup> (4 hours)

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

Ecotoxicity data has not been determined specifically for this product. Information is given based on a knowledge of the components and the ecotoxicology of similar products.

**Ecotoxicity:** Poorly soluble mixture, May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 >100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract) Mineral oil, and 1-Decene Homopolymer, Hydrogenated are not expected to cause any chronic effects to aquatic organisms less than 1 mg/l.

**Mobility:** Product is semi-solid under most environmental conditions and floats on water. If it enters soil, it will absorb to soil particles and will not be mobile

#### **Environmental Fate**

**Biodegradation:** Expected not to be 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

**Other Adverse Effects:** Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone creation potential or global warming potential.

### **13. Disposal Considerations**

#### **Waste Handling and Disposal:**

**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 dispose of in accordance with prevailing regulations. EU Waste Disposal Code (EWC): 12 01 12 spent waxes and fats. Classification of waste is always the responsibility of the end user

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### **13. Disposal Considerations continued**

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid and/or vapor) and can be dangerous. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks, static electricity or other sources of ignition. There may explode and cause injury or death. Empty containers should be completely drained, properly closed and promptly returned to a drum reconditioner or disposed of properly

### **14. Transport Information**

**US DOT Classification Non-Bulk:** Not regulated as a hazardous material or dangerous good for transportation.

**US DOT Classification Bulk:** Not regulated as a hazardous material or dangerous good for transportation.

**IMDG Classification:** Not regulated as a hazardous material or dangerous good for transportation.

**IATA/ICAO Classification:** Not regulated as a hazardous material or dangerous good for transportation

**ADR:** Not regulated as a hazardous material or dangerous good for transportation.

**ADNR:** Not regulated as a hazardous material or dangerous good for transportation.

**RID:** Not regulated as a hazardous material or dangerous good for transportation.

**Canadian TDG:** Not regulated as a hazardous material or dangerous good for transportation.

### **15. Regulatory Information**

**Hazard Symbols:** None

**EC Classification:** Not classified as dangerous under EC criteria

**EC Risk Phrase:** Not classified

R 43 May cause sensitization by skin contact

**EC Safety Phrase:** Not classified

**EINECS:** All components listed or polymer exempt

**Product Name: 200S Silver Streak Ultra Light, Extreme Light, Extra Light, Light, Medium and Heavy Grades**

**15. Regulatory Information continued**



**GHS Symbol:**

**Health Hazards:** May cause sensitization by skin contact

**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 Tariff Heading Number:** 3403.19.0000

**Schedule B Number:** 3403.19.0000

**Volatile Organic Compounds:** None

**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

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**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.**