



SPECIALIZED LUBRICANTS

1. Substance/Product Identification

Product Name: 190 Penetro 90® Spray
Company/Address: Schaeffer Mfg
102 Barton Street
Saint Louis, Missouri 63104
USA

Synonyms:

Preparation/Revision Date: 07/31/2010

Product Use/Type: 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: 190 Spray Version 1.0

2. Hazards Identification

Appearance: Yellow color

Odor: sweet petroleum odor

Principal Hazards: Eye and skin irritant. Flammable. Can form explosive gas-air mixtures. Risk of explosion upon heating of aerosol cans.

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: 190 Penetro 90® Spray

3. Composition and Information on Ingredients

Hazardous Ingredients

| Ingredient Name | CAS No. | EU Number | Percentage (by wt.) |
|----------------------------------|-----------------|---------------------|----------------------------|
| Petroleum base oils | 64742-53-6 | 265-156-6 | 70-80 |
| Heavy alkylate petroleum naphtha | 64741-65-7 | 265-067-2 | 9-11 |
| Teflon | 9002-84-0 | | 1-5 |
| Propane/isobutane Blend | 74-98-6/75-28-5 | 200-829-7/200-857-2 | 11-14 |
| Antimony diamylthiocarbamate | 15890-25-2 | 240-28-2 | 1-3 |

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

4. First Aid Measures

Ingestion: Give person large amounts of water to drink. Do not give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Seek medical attention immediately.

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

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

Skin: Wash with soap and water. If irritation or redness persists seek medical attention.

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

Product Name: 190 Penetro 90® Spray

5. Fire Fighting Measures:

Flash Point: Base product 200° - 230°F (93° - 110°C) Flammable per USA Flame Projection Test for aerosols.

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: 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: 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. Do not spray on a naked flame or any incandescent material.

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

Product Name: 190 Penetro 90® Spray

8. Exposure Controls and Personal Protection

Occupational Exposure Limits

| Ingredient | OSHA TWA | OSHA STEL | ACGIH TWA | ACGIH STEL |
|-------------------------------------|--------------------------------------|--------------|-------------------------------------|---------------|
| Petroleum base oils | 5.0 mg/m ³ | | 5.0 mg/m ³ | |
| Heavy alkylate petroleum naphtha | 2900 mg/m ³ 100 ppm | | 525 mg/m ³ 100 ppm | |
| Teflon | NE | | NE | |
| Propane/isobutane Blend | 2500/800 ppm | | 1000/800 ppm | |
| Antimony diamylthiocarbamate | 0.5 mg/m ³ | | 0.5 mg/m ³ | |

- (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, 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

Product Name: 190 Penetro 90® Spray

9. Physical and Chemical Properties

Flash Point: Base product 200° - 230°F (93° - 110°C) Flammable per USA Flame Projection Test for aerosols

Specific Gravity: 0.85 g/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: 20 to 25%

Evaporation Rate: Not determined

pH: Not applicable

Boiling Point: >500°F (>260°C)

Melting Point: Not applicable

Appearance:

Odor: Yellow color

Solubility in Water: Sweet petroleum odor

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: Can form explosive mixtures with air if heated above flash point and/or when sprayed or atomized. Aerosol cans may explode if heated.

Product Name: 190 Penetro 90® Spray

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.

Product Name: 190 Penetro 90® Spray

12. Environmental and Ecological Information

Acute toxicity

Petroleum base 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)

Acute Oral Toxicity: LD50 / rat /16,400 mg/kg

Acute Dermal Toxicity: LD50 / rabbit / 16,000 mg/kg

Acute Inhalation Toxicity:

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:

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)

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

Product Name: 190 Penetro 90® Spray

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: ORM-D

US DOT Classification Bulk: Not applicable

IMDG Classification: UN1950, Aerosols, (HEAVY ALKYLATE NAPHTHA, ISOBUTENE, PROPANE), 2.1, (FLASH POINT 40C PMCC), LIMITED QUANTITY

IATA/ICAO Classification: UN1950, Aerosols, (HEAVY ALKYLATE NAPHTHA, ISOBUTENE, PROPANE), 2.1, LIMITED QUANTITY

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 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 Chemicals

This product does contains 1-4% of antimony diamylthiocarbamate which is listed as antimony and compounds under the SARA Title III Section 313, CERCLA's 302/304 and 102(a) Lists

Product Name: 190 Penetro 90® Spray

15. Regulatory Information

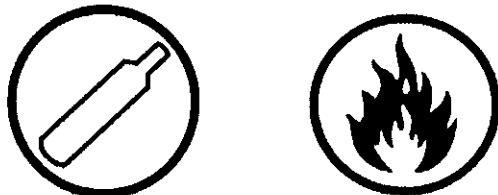
**Section 311/312 (40CFR 370)
US EPA Section 311/313 Classifications**

| | | | | |
|-------------------|-------------------|------|----------|---------------------|
| Acute (Immediate) | Chronic (Delayed) | Fire | Reactive | Pressure Generating |
| X | | X | | X |

**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:



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.**