



## SPECIALIZED LUBRICANTS

### 1. Substance/Product Identification

**Product Name:** 412 Tap Shield  
**Company/Address:** Schaeffer Mfg  
102 Barton Street  
Saint Louis, Missouri 63104  
USA

**Synonyms:**

**Preparation/Revision Date:** 09/15/2010

**Product Use/Type:** Metalworking Fluid

**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:** 412 Version 1.0

### 2. Hazards Identification

**Appearance:** Dark amber color

**Odor:** mild odor

**Principal Hazards:** Irritation to eyes, skin and upper respiratory tract

**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**  
**Personal Protection: C**

See Section 11 for complete health hazard information

**Product Name: 412 Tap Shield**

**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>
Severely Hydrotreated Naphthenic Oil	64742-52-5	265-155-0	5-15

**The petroleum base oils in this product have <3% (w/w) DSMO extract for total polycyclic aromatic compounds (PAC) using IP 346 method**

**4. First Aid Measures**

**Ingestion:** Do not induce vomiting. Do not administer anything by mouth to an unconscious person. If conscious, offer water to drink. Seek medical attention immediately.

**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 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:** approximately 329°F (165°C) ASTM D-92 Cleveland Open Cup

**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

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**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:** If the product is spilled into rivers, creeks, streams or other natural waterways or courses the spill must be reported to the National Response Center (U.S. Coast Guard). 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. If product is frozen the stability can be compromised. Thaw completely and evaluate.

**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>
Severely Hydrotreated Naphthenic Oil	5.0 mg/m <sup>3</sup>		5.0 mg/m <sup>3</sup>	

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

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

### **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:** In applications containing time weighted exposures of 0.5 to 5 mg/m<sup>3</sup> NIOSH recommends that inhalation exposures can be reduced through improved ventilation or a mist collection system. In the event that these methods are not applicable NIOSH recommends the use of an air-purifying half mask respirator, standard or disposable, equipped with any P or R series particulate filter. If continuous exposure exceeds 5 mg/m<sup>3</sup> it is recommended by NIOSH to use an air-purifying respirator equipped with a hood or helmet and a HEPA filter. If persistent respiratory problems occur when mist levels are below 0.5 mg/m<sup>3</sup> it is then the users responsibility to obtain a recommendation from a qualified health care provider or certified industrial hygienist for personalized respiratory protection.

The proper use and type of respirator is the responsibility of the user and is dependent on the product and operating conditions. Schaeffer Mfg is in no way responsible for improper use of its product.

## **9. Physical and Chemical Properties**

**Flash Point:** approximately 329°F (165°C) ASTM D-92 Cleveland Open Cup

**Specific Gravity:** 1.02 +/- 0.02

**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:** Not applicable

**Evaporation Rate:** Not Determined

**pH:** 8.9 +/- 0.5

**Boiling Point:** 300° - 400°F

**Melting Point:** Not applicable

**Appearance:** Dark Amber

**Odor:** Mild odor

**Solubility in Water:** Complete

***The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise specified***

**Product Name: 412 Tap Shield**

#### **10. Stability and Reactivity**

**Stability:** Stable under normal conditions of use

**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:** May cause mild to moderate irritation to the mouth, throat and stomach. May cause Nausea, diarrhea or vomiting

**Eye Contact:** May cause mild to moderate irritation (tears, swelling, stinging, blurred vision and redness). High vapor concentrations may also cause irritation.

**Skin Contact:** May cause mild to moderate skin irritation (itching, burning, redness). Prolonged exposure may cause more severe symptoms and result in skin absorption.

**Inhalation:** Vapors or mists may cause headache, nausea, dizziness or vomiting.

**Dermal Sensitization:** Product may be a skin sensitizer

**Inhalation Sensitization:** Product may be a 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.

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

##### **Ecotoxicity**

Not established

**Environmental Fate:** Not known or expected under normal use

**Biodegradation:** This product is not biodegradable

**Bioaccumulation:** This product is not expected to bioaccumulate

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

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### **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

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**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:** 2710.19.3070

**Schedule B Number:** 2710.19.3070

**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 hazardous material

**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.**