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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Dr. Doug's Arrow Lube  
**Synonyms:** DD SYNTH ARW LUBE CLM F  
**Item No.:** 122817-TF  
**Emergency Contact:** (800) 255-3924

**Distributor Address:**  
Easton Technical Products  
5040 Harold Gatty Drive  
Salt Lake City, UT 84116  
(801) 539-1400  
www.eastonarchery.com

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

90% Polydimethylsiloxane and 10% Polydimethylsiloxane Polymers

**3. HAZARDS IDENTIFICATION**

**POTENTIAL HEALTH EFFECTS**

**Acute Effects**

**Eye Contact:** Direct contact may cause temporary redness and discomfort.  
**Skin Contact:** No significant irritation expected from a single short-term exposure.  
**Inhalation:** No significant effects expected from a single short-term exposure.  
**Ingestion:** Low ingestion hazard in normal use.

**Prolonged/Repeated Exposure Effects**

**Skin Contact:** No known applicable information.  
**Inhalation:** No known applicable information.  
**Ingestion:** No known applicable information.

**Signs and Symptoms of Overexposure:** No known applicable information.

**Medical Conditions Aggravated by Exposure:** No known applicable information.

*The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.*

**4. FIRST AID MEASURES**

**Eye contact:** Immediately flush with water.  
**Skin contact:** No first aid should be needed.  
**Inhalation:** No first aid should be needed.  
**Ingestion:** No first aid should be needed.  
**Notes to Physician:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b>	> 221 °F / > 105 °C (Closed Cup)
<b>Explosion Limits in Air:</b>	Not determined.
<b>Auto-ignition Temperature:</b>	Not determined.
<b>Extinguishing Media:</b>	On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO <sub>2</sub> ), dry chemical or water spray. Water can be used to cool fire exposed containers.
<b>Firefighting Measures:</b>	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
<b>Unusual Fire Hazards:</b>	None.
<b>Hazardous Decomposition Products:</b>	Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Contaminant Cleaning Up:</b>	Determine whether to evacuate or isolate the area according to your local emergency plan. This material is highly lubricious and therefore extremely slippery- use caution when walking in spill area. Observe all personal protection equipment recommendations described in Sections 5 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.
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## 7. HANDLING AND STORAGE

Material is extremely slippery. Use with adequate ventilation. Avoid eye contact.  
Use reasonable care and store away from oxidizing materials.  
Use with adequate ventilation. Avoid eye contact.  
Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and away from heat, sparks, and flame.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### COMPONENT EXPOSURE LIMITS

There are no components with workplace exposure limits.

### ENGINEERING CONTROLS

**Local Ventilation:** None should be needed.

**General Ventilation:** Recommended.

### PERSONAL PROTECTIVE EQUIPMENT FOR ROUTINE HANDLING

**Eye Protection:** Use proper protection – safety glasses as a minimum.

**Skin and Body Protection:** Washing at mealtime and end of shift is adequate.

**Suitable Gloves:** No special protection needed.

**Inhalation:** No respiratory protection should be needed.

**Suitable Respirator:** None should be needed.

#### PERSONAL PROTECTIVE EQUIPMENT FOR SPILLS

<b>Eyes:</b>	Use proper protection - safety glasses as a minimum.
<b>Skin:</b>	Washing at mealtime and end of shift is adequate.
<b>Inhalation/Suitable Respirator:</b>	No respiratory protection should be needed.
<b>Precautionary Measures:</b>	Avoid eye contact. Use reasonable care.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Form:</b>	Liquid
<b>Color</b>	Colorless
<b>Odor:</b>	Odorless
<b>Specific Gravity:</b>	@ 25°C: 0.918 – 1.01
<b>Viscosity:</b>	1600-2000 cst
<b>Freezing/Melting point/range:</b>	Not determined.
<b>Boiling point/range:</b>	> 35 °C
<b>Vapor Pressure:</b>	@ 25°C: Not determined.
<b>Vapor Density:</b>	Not determined.
<b>Solubility in Water:</b>	Insoluble.
<b>pH:</b>	Not applicable.
<b>% Volatile (by Volume):</b>	Not determined.

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable.
<b>Hazardous Polymerization:</b>	Hazardous polymerization will not occur.
<b>Conditions to Avoid:</b>	None.
<b>Materials to Avoid:</b>	Oxidizing material can cause a reaction.

### 11. TOXICOLOGICAL INFORMATION

#### SPECIAL HAZARD INFORMATION ON COMPONENTS

No known applicable information.

### 12. ECOLOGICAL INFORMATION

#### Environmental Fate and Distribution

##### Air:

This product is a high molecular weight liquid polymer which has a very low vapor pressure (<1 mm Hg). As a result it is unlikely to become an atmospheric contaminant unless generated as an aerosol.

**Water:**

This product has a very low water solubility (< 100 ppb). As it has a specific gravity of < 1, if discharged to water, it will initially form a surface film. As the product is non volatile and has a high binding affinity for particulate matter, it will adsorb to particulates and sediment out.

**Soil:**

If discharged to surface water, this product will bind to sediment. If discharged in effluent to a waste water treatment plant, the product is removed from the aqueous phase by binding to sewage sludge. If the sewage sludge is subsequently spread on soil, the silicone product is expected to degrade.

**Degradation:**

This product, degrades in soil abiotically to form smaller molecules. These in turn are either biodegraded in soil or volatilized into the air where they are broken down in the presence of sunlight. Under appropriate conditions, the ultimate degradation products are inorganic silica, carbon dioxide and water vapor. Due to the very low water solubility of this product, standard OECD protocols for ready and inherent biodegradability are not suitable for measuring the biodegradability of this product. The product is removed >80% during the sewage treatment process.

**Environmental Effects**

**Toxicity to Water Organisms:**

Based on analogy to similar materials this product is expected to exhibit low toxicity to aquatic organisms.

**Toxicity to Soil Organisms:**

Experiments show that when sewage sludge containing this product is added to soil, it has no effect on soil micro-organisms, earthworms or subsequent crops grown in the soil.

**Bioaccumulation:**

This product is a liquid and is a high molecular weight polymer. Due to its physical size it is unable to pass through, or be absorbed by biological membranes. This has been confirmed by testing or analogy with similar products.

**Fate and Effects in Waste Water Treatment Plants**

This product or similar products has been shown to be non-toxic to sewage sludge bacteria.

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50) High Medium Low

Acute Aquatic Toxicity (mg/L) <=1 >1 and <=100 >100

Acute Terrestrial Toxicity <=100 >100 and <= 2000 >2000

*This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.*

*This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.*

**13. DISPOSAL CONSIDERATIONS**

**Disclaimer:** Information in this section pertains to the product as shipped in its intended composition as described in Section 3 of this MSDS. Contamination or processing may change waste characteristics and requirements. Regulations may also apply to empty containers, liners or rinsate. State/provincial and local regulations may be different from federal regulations.

**RCRA Classification (40 CFR 261):** When a decision is made to discard this material, as received, it is classified as a hazardous waste? **No.**

*Material, as supplied, is not a hazardous waste. Landfill according to current federal, state and local regulations, or incinerate in a high-temperature incinerator designed to burn fluorine-containing materials. Processing, use or contamination may make this information inaccurate or incomplete.*

**14. TRANSPORT INFORMATION**

**DOT Road Shipment Information (49 CFR 172.101)**

- Shipping Class:** Not regulated by DOT.
- Hazard Label(s):** None
- Ocean Shipment (IMDG)** Not subject to IMDG code.
- Air Shipment (IATA)** Not subject to IATA regulations.

## 15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200. TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

### EPA SARA Title III Chemical Listings

**Section 302 Extremely Hazardous Substances (40 CFR 355):** None.

**Section 304 CERCLA Hazardous Substances (40 CFR 302):** None.

### Section 311/312 Hazard Class (40 CFR 370):

Acute: No

Chronic: No

Fire: Yes

Pressure: No

Reactive: No

### Section 313 Toxic Chemicals (40 CFR 372):

None present or none present in regulated quantities.

Note: Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.

### Supplemental State Compliance Information

#### California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

#### Massachusetts

No ingredient regulated by MA Right-to-Know Law present.

State regulations: No products were found.

California Prop 65: No products were found

## 16. OTHER INFORMATION

**Prepared by:** Easton Technical Products

**DISCLAIMER:** *The information in this Material Safety Data Sheet is based upon data considered to be accurate at the time of its preparation. This information in no way modifies, amends, enlarges, or creates any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. This information is a recommendation for safe handling, use, processing, storage, transportation, disposal, and release and Supplier shall not be responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices, or from hazards inherent in the nature of the product and/or material. This information relates only to the specific product and/or material designated and may not be valid for such product and/or material used in combination with any other product and/or material or in any process, unless otherwise specified.*