



## Material Safety Data Sheet

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Revision date: 2009/12/21

### Arizona Archery Enterprises, Inc. Lubricant Fluid, 1000 CST

#### 1. PRODUCT AND COMPANY INFORMATION

Arizona Archery Enterprises, Inc.  
2781 N. Valley View Road  
Prescott Valley, Arizona 86314

**Emergency Telephone: (928) 772-9887**  
Customer Service: (928) 772-9887

MSDS No.: 000524

Generic Description: Silicone  
Physical Form: Liquid  
Color: Colorless  
Odor: Characteristic odor

NFPA Profile: Health 0 Flammability 1 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

#### 2. HAZARDS IDENTIFICATION

##### Acute Effects

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

##### Prolonged/Repeated Exposure Effects

Skin: No known applicable information  
Inhalation: No known applicable information  
Oral: 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 review of the product. Please refer to Section 11 for the detailed toxicology information.



## **Arizona Archery Enterprises, Inc. Lubricant Fluid, 1000 CST**

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

None present. This is not a hazardous material as defined in the OSHA Hazard Communication Standard.

### **4. FIRST AID MEASURES**

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

### **5. FIRE FIGHTING MEASURES**

Flash Point:	>248 F / > 120 C (Closed Cup) > 482 F / > 250 C (Cleveland Open Cup)
Auto-ignition Temperature:	Not determined
Flammability Limits In Air:	Not determined.
Extinguishing Media:	Carbon Dioxide (CO <sub>2</sub> ) Water spray. Dry chemical. Foam. Water can be used to cool fire exposed containers.
Fire Fighting Measures:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.
Unusual Fire Hazards:	None.

### **6. ACCIDENTAL RELEASE MEASURES**

Containment/Clean up:	Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements. Clean up remaining materials from spill with suitable absorbent. 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 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. Observe all personal protection equipment recommendations described in sections 5 and 8. 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 clean up of releases. You will need to determine which federal, state and local laws and regulations are applicable.
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Note: See section 8 for Personal Protective Equipment for spills. Call (928) 772-9887 if additional information is required.



## **Arizona Archery Enterprises, Inc. Lubricant Fluid, 1000 CST**

### **7. HANDLING AND STORAGE**

Use with adequate ventilation. Avoid eye contact.

Use reasonable care and store away from oxidizing materials.

### **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**

Eyes:	Use proper protection – safety glasses as a minimum.
Skin:	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**

Eyes:	Use proper protection – safety glasses at a minimum.
Skin:	Washing at mealtime and end of shift is adequate.
Inhalation/Suitable Respirator:	No respiratory protection should be needed.

Comments:	When heated to temperatures above 150 degrees C in the presence of air, product can form formaldehyde Vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA permissible Exposure Limit for formaldehyde.
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Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone based materials in aerosol applications that has been developed by the silicone industry ([www.SEHSC.com](http://www.SEHSC.com)) or contact Arizona Archery Enterprises, Inc. customer service.



## **Arizona Archery Enterprises, Inc. Lubricant Fluid, 1000 CST**

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical Form:	Liquid
Color:	Colorless
Odor:	Characteristic odor
Specific Gravity @ 25 degrees C:	0.97
Viscosity:	1000 cSt
Freezing/Melting Point:	Not determined
Boiling Point:	> 65 degrees C
Vapor Pressure @ 25 degrees C:	Not determined
Vapor Density:	Not determined
Solubility in water:	Not determined
pH:	Not determined
Volatile Content:	Not determined
Flash Point:	> 245 degrees F / > 120 degrees C (Closed Cup) > 482 degrees F / > 250 degrees C (Cleveland Open Cup)
Auto-ignition Temperature:	Not determined
Flammability Limits In Air:	Not determined

Note: the above information is not intended for use in preparing product specifications. Contact AAE, Inc. before writing specifications

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

Chemical Stability:	Stable
Hazardous Polymerization:	Hazardous polymerization will not occur.
Conditions to avoid:	Oxidizing material can cause a reaction.

#### **Hazardous Decomposition Products**

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicone dioxide. Formaldehyde.

### **11. TOXICOLOGICAL INFORMATION**

#### **Component Toxicology Information**

No known applicable information.

#### **Special Hazard Information on Components**

No known applicable information.



## **Arizona Archery Enterprises, Inc. Lubricant Fluid, 1000 CST**

### **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 absorb 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, polydimethylsiloxane, 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 polydimethylsiloxane 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 have been shown to be non-toxic to sewage sludge bacteria.

Hazard Parameters (LC50 or EC50)	Ecotoxicity Classification Criteria		
	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 other information presented in the section concerning the overall ecological safety of this material.

### **13. DISPOSAL CONSIDERATIONS**

#### **RCRA Hazard Class (40 CFR 261)**

When a decision is made to discard this material as received, is it classified as a hazardous waste? No  
State or local laws may impose additional regulatory requirements regarding disposal. Call (928) 772-9887, if additional information is needed.



## **Arizona Archery Enterprises, Inc. Lubricant Fluid, 1000 CST**

### **14. TRANSPORT INFORMATION**

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

Not subject to DOT.

#### **Ocean Shipment (IMDG)**

Not subject to IMDG CODE.

#### **Air Shipment**

Not subject to IATA regulations.

Call AAE, Inc., (928) 772-9887 if more information is required.

### **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 CERLA Hazardous Substances (40 CFR 302)**

None

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

Acute: No  
Chronic: No  
Fire: No  
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.



## **Arizona Archery Enterprises, Inc. Lubricant Fluid, 1000 CST**

### **Massachusetts**

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

### **New Jersey**

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
63148-62-9	>60.0	Polydimethylsiloxane

### **Pennsylvania**

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
63148-62-9	>60.0	Polydimethylsiloxane

## **16. OTHER INFORMATION**

Prepared by: Arizona Archery Enterprises, Inc.

This data is offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.