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AFD Petroleum Ltd. Office: 780-438-5930  
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Canada T6P 1L7 afdpetroleum.com

## Safety Data Sheet

Rev. Date: 1/05/2017

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### **AWARD Summer Supreme Moly**

Grease  
Heavy Duty Petroleum Lubricant  
Product Code: G921

Universal Lubricants, A PetroChoice Company  
2824 N Ohio Street  
Wichita, Kansas 67219  
Website: [www.universallubes.com](http://www.universallubes.com)

1-800-444-6457 Telephone 1-316-832-3627 Product Information telephone  
1-800-424-9300 US, Canada, Puerto Rico, Virgin Isl.- Emergency  
telephone(CHEMTREC)  
+1-703-527-3887 International / Maritime Emergency telephone (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

#### **OSHA/HCS Status:**

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of this product.

<b>Physical Hazards:</b>	Not classified
<b>Health Hazards:</b>	Not classified
<b>Environmental Hazards:</b>	Not classified
<b>Signal Word:</b>	No signal word
<b>Hazard Statement:</b>	No known significant effects or critical hazards
<b>GHS Symbol:</b>	<i>No Symbol</i>

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## Precautionary Statements

**General:** Read label before use. Keep out of reach of children. If medical advice is needed, have product information at hand.

**Prevention:** Not applicable

**Response:** Not applicable

**Storage:** Not applicable

**Disposal:** Not applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms:** Heavy Duty Petroleum Lubricant, Grease  
**Formula:** Mixture  
**Molecular Weight:** Variable

Component	CAS Number	Concentration
Base Lubricating Oils Mixture		70-90 %
Calcium Sulfonate	Trade Secret	10-30 %
Molybdenum Disulfide	Trade Secret	1-5 %

## 4. FIRST AID MEASURES

### Eyes

Immediately flush eyes with large amounts of fresh water and continue flushing until irritation subsides. Seek medical attention.

### Inhalation

If breathing difficulty exists, remove individual away from exposure and into fresh air. Seek medical attention

### Skin

Remove contaminated clothing. Wash contaminated area repeatedly with soap and water. Seek medical attention for persistent irritation.

### Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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## 5. FIREFIGHTING MEASURES

### **Suitable extinguishing media**

Use dry chemical, foam, carbon dioxide (CO<sub>2</sub>) or water spray or water fog.

### **Specific hazards from combustion**

Carbon monoxide, carbon dioxide and other oxides may be products of combustion.

### **Special protective equipment for fire-fighters**

Wear full firefighting turn-out gear (full bunker gear), and respiratory protection (SCBA). Cool fire exposed containers with water spray and avoid spreading burning material with water used for cooling purposes.

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## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions and Protective equipment**

Personal Protection, see section 8. Any individual not wearing protective equipment should not enter spill or contaminated area until all clean-up has been completed.

### **Emergency procedures**

For personal emergency procedures see section 4. For fire emergency procedures see section 5. Contain spilled oil liquid if possible without posing any risk or personal injury.

### **Environmental precautions**

Prevent spreading over a wide area. Contain spill immediately. Contact appropriate authorities of spill. Do not allow spill to enter sewer system, drains of any kind, surface water or water courses. Avoid flushing to such areas as well

### **Methods and materials for containment and cleaning up**

Soak up or absorb with appropriate inert materials such as, sand, clay, silica gel, acid binder, universal binder, sawdust, paper fiber etc. Large spills may be picked up using vacuum pumps, shovels, buckets or other means of transfer and placed into drums or any other approved and suitable containers.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

### Conditions for safe storage

Store in only approved and marked containers. Keep containers closed when not in use and during transportation. Keep containers away from flame or other ignition sources.

### Incompatibilities

May react strong with oxidizing agents, such as hydrogen peroxide, bromine, and chromic acid.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

Ingredient name	Exposure limits
2-Methylpentane-2,4-diol	<b>ACGIH TLV (United States, 3/2015).</b> C: 121 mg/m <sup>3</sup> C: 25 ppm <b>NIOSH REL (United States, 10/2013).</b> CEIL: 125 mg/m <sup>3</sup> CEIL: 25 ppm <b>OSHA PEL 1989 (United States, 3/1989).</b> CEIL: 25 ppm CEIL: 125 mg/m <sup>3</sup>

### Respiratory protection

If vapor mist is generated when the material is heated or handled, use approved respiratory protection. All respirators must be NIOSH certified. Fit testing may be required before use. Do not use compressed oxygen in hydrocarbon atmospheres. Adequate ventilation in accordance with good engineering practices must be provided to maintain concentrations below the specified exposure or flammable limits.

### Hand protection

If handling hot material, use proper insulated gloves.

### Eye protection

Not required under normal conditions of use. If material is handled such that it could be splashed or misted into eyes, wear plastic face shield or splash resistant safety goggles or glasses with side shields.

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### **Skin and body protection**

Use impervious clothing (boots, gloves, aprons, bibs, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing. Contact your facility safety department or safety supplier to determine the proper protective equipment for your use.

### **Hygiene measures**

Do not use contaminated clothing, launder clothing before reuse. Properly dispose of contaminated clothing or articles that cannot be laundered such as leather gloves, boots, etc. Wash contaminated areas of the body which may have been exposed with soap and water. Wash thoroughly before handling food and beverages. Food and beverage consumption should be avoided in work areas where hydrocarbons are present.

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

**Appearance:** Semi-solid, Black

**Physical state:** Solid

**Odor:** Mild, bland petroleum odor

**Specific gravity (H<sub>2</sub>O=1):** 0.9500

**Melting point/freezing point:** No data available

**Initial boiling point and boiling range:** No data available

**Flash point (C.O.C):** 224°C, (435°F)

**Upper/lower flammability or explosive limits:** No data available

**Vapor pressure:** Less than 0.01 @20°C

**Solubility in water:** Negligible, less than 0.1%

**Percent volatile:** Negligible

**Vapor density (air=1):** Greater than 5

**Evaporation rate:** Less than 0.01 (butyl acetate=1)

## 10. STABILITY AND REACTIVITY

**Reactivity:** No data available.

**Chemical stability:** Stable under normal temperatures and pressures.

**Possibility of hazardous reactions:** Product will not undergo hazardous polymerization.

**Conditions to avoid:** Heat, open flames, oxidizing materials and mist.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide and other oxides may be generated as products of combustion.

## 11. TOXICOLOGICAL INFORMATION

### Acute oral toxicity:

Product/ingredient name	Result	Species	Dose	Exposure
2-Methylpentane-2,4-diol	LD50 Oral	Rat	3700 mg/kg	-

### Acute dermal toxicity:

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Methylpentane-2,4-diol	Skin - Mild irritant	Rabbit	-	465 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

## 12. ECOLOGICAL INFORMATION

### Toxicity:

Product/ingredient name	Result	Species	Exposure
2-Methylpentane-2,4-diol	Acute EC50 2800000 to 3200000 µg/L Fresh water	Crustaceans - Ceriodaphnia reticulata - Larvae	48 hours
	Acute EC50 3200000 µg/L Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute LC50 10000000 µg/L Marine water	Fish - Menidia beryllina	96 hours





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**Persistence and degradability:** No data available

**Bioaccumulative potential:**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
2-Methylpentane-2,4-diol	0.58	-	low
Polysulfides, di-tert-dodecyl	>6.2	-	high

**Mobility in soil:**

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

**Other adverse effects:** No known significant effects or critical hazards.

### 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal methods

All disposals must comply with federal, state and local regulations. Spilled or discarded material may be a regulated waste. Refer to state and local regulations. If other material was used during cleanup efforts the resultant mixture may be regulated.

### 14. TRANSPORT INFORMATION

**U.S. DOT Road/Rail/Waterways:** Not dangerous/hazardous goods

**Transport Canada Road/Rail/Waterways:** Not dangerous/hazardous goods

### 15. REGULATORY INFORMATION

**U.S. Federal regulations:** **United States inventory (TSCA 8b):** All components are listed or exempted.

**Clean Air Act Section 112:  
(b) Hazardous Air  
Pollutants (HAPs)** Not listed

**Clean Air Act Section 602:  
Class I Substances** Not listed

**Clean Air Act Section 602:  
Class II Substances** Not listed

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**DEA List I Chemicals:** Not listed  
**(Precursor Chemicals)**

**DEA List II Chemicals:** Not listed  
**(Essential Chemicals)**

**SARA 302/304**

**Composition/information on ingredients**

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Ethylene oxide	0 - 0.01	Yes.	1000	-	10	-

**SARA 304 RQ:** 555555.6 lbs / 252222.2 kg

**SARA 311/312**

**Classification:** Not applicable.

**Composition/information on ingredients**

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
2-Methylpentane-2,4-diol	1 - 5	No.	No.	No.	Yes.	No.

**SARA 3136**

No products were found.

**State Regulations**

- Massachusetts:** The following components are listed: 2-Methylpentane-2, 4-diol; Molybdenum disulphide
- New York:** None of the components are listed.
- New Jersey:** The following components are listed: 2-Methylpentane-2, 4-diol; Distillates (petroleum), hydrotreated heavy paraffinic
- Pennsylvania:** The following components are listed: 2-Methylpentane-2, 4-diol

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**California Prop. 65**

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Ethylene oxide	Yes.	Yes.	Yes.	Yes.

**NFPA Hazard Classification**

Health: 0  
 Flammability: 1  
 Reactivity: 0

**HMIS Classification**

Health: 0  
 Flammability: 1  
 Physical Hazards: 0  
 Personal Protection: B



<b>HEALTH</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>B</b>

**16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate. However, neither Universal Lubricants, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information provided herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.