

# SAFETY DATA SHEET



Revision Date: 07/12/2015  
Revision Number: 001.2

## 1. PRODUCT AND COMPANY INFORMATION

<b>Product Name:</b>	Graphite Petrolatum Anti-Seize Meets SAE-AMS-2518	<b>Item number(s):</b>	07-00, 07-01, 07-02, 07-03, 07-35
<b>Product Type/Use:</b>	Lubricant	<b>NSN(s):</b>	8030-01-044-5034
<b>Restriction of Use:</b>	None Identified	<b>Region(s):</b>	United States
<b>Company Address:</b>	Armite Laboratories Inc. 1560 Superior Ave Ste. A-4 Costa Mesa, CA 92627	<b>Telephone:</b>	949 646-9035
		<b>Product Emergency:</b>	<b>CHEM-TEL 800-225-3924</b>

## 2. HAZARD IDENTIFICATION

Signal Word	Hazard Class	Hazard Category	Pictogram(s)
Warning	Eye Irritant	2B	None Required

### Hazard Statements: Causes Eye Irritation

May cause irritation to the skin, eyes, and respiratory tract. If ingested, may cause gastrointestinal disturbances.

### Precautionary Statements

**Prevention:** Wash hands thoroughly after handling. Wear protective eye and face protection. Wear protective gloves if sensitive.

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to remove, and continue to rinse. Do not rub eyes. IF INGESTED: May cause gastrointestinal disturbances.

**Storage:** Store in a tightly closed container at ambient temperature.

**Disposal:** Follow all Federal, State and local regulations when disposing this material. Do not allow to enter waterways.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of chemicals (GHS).

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS Number	Percentage by weight*
Petroleum Jelly (Petrolatum)	8009-03-8	48-52
Graphite (synthetic)	7782-42-5	52-48

\*Exact percentage may be a trade secret, concentration range is provided to assist user in providing appropriate protections.

## 4. FIRST AID MEASURES

**Inhalation:** No emergency care anticipated. When molten only (molten product can cause thermal burns) seek medical attention.

**Skin contact:** Wash with soap & water. When molten only (molten product can cause thermal burns). In serious cases, use emergency shower immediately. Flush skin thoroughly for 15 minutes while removing contaminated clothing. Obtain medical attention.

**Eye contact:** Flush with plenty of water. If irritation persists get medical attention. (Molten product can cause thermal burns) Flush eyes with water and continue washing for 15 minutes. Obtain medical attention.

**Ingestion:** Do not induce vomiting. When molten only (molten product can cause thermal burns) – Seek medical attention if necessary.

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## 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Treat as oil fire: Foam, dry chemical, carbon dioxide or water spray (fog). DO NOT use water jet.

**Special firefighting procedures:** Do not use water jet. Oil will float on water and can spread any fire.

**Unusual fire or explosion hazard:** Following products may be produced during fire: Oxides of carbon.

**Special protective equipment for firefighters:** Self-contained breathing apparatus for larger fires.

## 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions:** Avoid runoff to sewers and waterways. Product should not enter sewer or waterways. Dike to contain spill. Absorb on inert material such as sand, earth, vermiculite. After cooling, scrape/shovel material. Stop any leak when risk subsides. Use methods consistent with local regulations.

**Clean-up method:** Surfaces will be extremely slippery, use care to avoid falling. Scrape up as much material as possible. Clean residue with soap & water.

## 7. HANDLING AND STORAGE

**Handling:** Do not handle at temperatures > 40°C (104°F) unless wearing protective equipment. Prevent contact with eyes.

**Ventilation:** General (mechanical) room ventilation is expected to be satisfactory for use at room temperature.

**Storage:** Store in a cool place protected from light. Keep away from heat, sparks and flame.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Graphite (synthetic)	2 mg/m <sup>3</sup> (All forms of graphite except graphite fibers)	15 mg/m <sup>3</sup> (Total Dust) TWA 5mg/m <sup>3</sup> (Respirable Fraction) TWA	None	None

**Engineering controls:** Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits. Practice good industrial hygiene by washing with soap & water after each use.

**Respiratory protection:** Use NOISH approved respirator if there is a potential to exceed exposure limits. Observe OSHA regulations for respirator use. (29 CFR 1910.134).

**Eye/face protection:** Safety goggles or safety glasses with side shields.

**Skin protection:** Use impermeable gloves and protective clothing as necessary to prevent skin contact in sensitive persons.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Paste	<b>Flash point:</b>	>93.4°C(200°F) Method: PMCC ASTM D93
<b>Color:</b>	Light grey	<b>VOC content:</b>	nil
<b>Odor:</b>	Mild petroleum	<b>Boiling point:</b>	> 260° (500°F)
<b>Odor threshold:</b>	Not available	<b>Melting point:</b>	>54°C (130°F)

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<b>pH:</b> Neutral	<b>Vapor Pressure:</b> <0.01 kPal(<0.08mm Hg) (at 20°C)
<b>Solubility in water:</b> Insoluble	<b>Density:</b> 1.30 g/cm <sup>3</sup>
<b>Specific gravity:</b> Not available	<b>Kinematic Viscosity:</b> Not available
<b>Partition coefficient:</b> Not available	<b>Vapor Density:</b> >5 (Air = 1)
<b>Flammable/Explosive limits</b>	<b>Autoignition temp:</b> No Data
Lower limits: Not determined	<b>Evaporation rate</b> (butyl acetate =1): <0.01 compared to butyl acetate
Upper limits: Not determined	

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions

**Conditions to avoid:** Avoid ignition source. Keep away from heat.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide

**Incompatible materials:** Very strong oxidizers. Condition is aggravated when material is heated.

**Hazardous reactions:** Graphite reacts vigorously with liquid potassium, potassium peroxide and will ignite with chlorine trifluoride and fluorine. If graphite contacts liquid potassium, rubidium, or caesium at 300°C, intercalation compounds may be formed. These compounds may explode on contact with water or ignite in air.

## 11. TOXICOLOGICAL INFORMATION

**Relevant routes of exposure:** Skin, eyes

### Potential Health Effects/Symptoms

**Inhalation:** No known significant effects or critical health hazards as high viscosity makes inhalation unlikely.

**Skin contact:** No known significant effects or critical hazards.

**Eye contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards as grease results in gastric distress negating bio-accumulation concerns.

Hazardous Component(s)	LD50s and LC50s		Immediate and Delayed Effects
Graphite (Synthetic)	No information available		No information available
Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Graphite (Synthetic)	Not available	Not available	No

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No effects are expected from this material due to its insolubility. Insolubility leads to non-bioavailability.

**Mobility:** N/A

**Persistence and Degradability:** N/A

**Bioaccumulative Potential:** N/A

## 13. DISPOSAL CONSIDERATIONS

**Recommended method of disposal:** Treatment, transportation and disposal must be in accordance with applicable Federal, State and Local regulations. Do not flush to surface water or sanitary sewer system.

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## 14. TRANSPORTATION INFORMATION

**US Dept of Transportation (49 CFR):** Not Regulated

**IATA:** Not Regulated

**IMDG:** Not Regulated

## 15. REGULATORY INFORMATION

### United States Regulatory Information

**ACDIH:** 2mg/m3 (TVL All forms of graphite except graphite fibers)  
**CAA Section 112:** Not listed  
**CERCLA:** Not Listed  
**IRAC:** Not listed  
**NPT:** Not listed  
**OSHA:** 15mg/m3 (Total Dust) (PEL Synthetic Graphite 5mg/m3 (Respirable fraction) (PEL Synthetic Graphite)  
**SARA Title III:** Not listed  
**TSCA:** Not listed

### State Regulations

**California PROP 65:** Not listed.  
**MA Substance List:** Listed as 2, 4 (graphite, synthetic)  
**NJRTK Hazardous Substance List:** Not listed  
**PA Hazardous Substance List:** Listed (graphite)

### Other

**DSL –** All material listed

**WHMIS:** The mixture is not specifically listed in the Canadian Transportation of Dangerous Goods regulations.

## 16. OTHER INFORMATION

Prepared by: Armite Laboratories, Inc.

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