

SAFETY DATA SHEET



Revision Date: 05/15/2015
Revision Number: 001.1

1. PRODUCT AND COMPANY INFORMATION

Product Name:	Graphite Petrolatum Anti-Seize Meets SAE-AMS-2518	Item number(s):	07-00, 07-01, 07-02, 07-03, 07-35
Product Type/Use:	Lubricant	NSN(s):	8030-01-044-5035
Restriction of Use:	None Identified	Region(s):	United States
Company Address:	Armite Laboratories Inc. 1560 Superior Ave Ste. A-4 Costa Mesa, CA 92627	Telephone:	949 646-9035
		Product Emergency:	CHEM-TEL 800-225-3924

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 ³ (All forms of graphite except graphite fibers)	15 mg/m ³ (Total Dust) TWA 5mg/m ³ (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

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

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