

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT NAME AND COMPANY IDENTIFICATION

PRODUCT NAME: Zinc Dust-Petrolatum
Anti-Seize Thread Compound
Mil Spec: A-A-59313
NSN 8030-00-292-1102
Manufacture/Supplier: Armite Laboratories Inc.
Cage Code 84180
1560 Superior Ave
Costa Mesa, CA 92627
EMERGENCY: Chem-Tel Inc. (800) 255-3924

PRODUCT USE: Prevent seizing during assembly and disassembly of threaded and unthreaded aluminum and aluminum-alloy components engaged with components of similar or dissimilar metals.
Phone: (949) 646-9035
Fax: (949) 646-8319
Prepared By: Armite Laboratories
Last Revision Date: February 15, 2011

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components (Specific)	CAS No.	OSHA PEL / ACGIH / NIOSH	% (opt.)
Petrolatum	8009-03-8	(As Oil mist if generated) 5 mg/m ³ TWA 10mg/m ³ STEL	Balance
Total Zinc Dust 99% (Metallic Zinc)96.0% Wt * (Zinc Oxide) 2-4% Wt	7440-66-6 1313-13-02	Not Established Not Established * OSHA 10mg/m ³ (total) & 5mg/m ³ (respirable) / * ACGIH 2 mg/m ³ (respirable fraction) TVL 10mg/m ³ (respirable fraction) STEL/ * NIOSH (Dust or Fume) 5mg/m ³	41-43%

SECTION 3 – HAZARDS IDENTIFICATION

Route of Entry: Eyes, Ingestion, Skin
Eyes: May cause irritation.
Ingestion: May cause diarrhea.
Skin: May cause possible rash for persons with hypersensitivity.

SECTION 4 – FIRST AID MEASURES

Eyes: Flush with water until all residual material is gone. If irritation persists, seek medical help.
Ingestion: Wash out mouth. Do not induce vomiting. Seek medical attention.
Skin: Remove by wiping followed by washing with soap and water.
Always wash hands thoroughly after using chemicals; never allow food, drink or smoking around chemicals.

SECTION 5 – FIRE FIGHTING MEASURES

Flammability: Not Available
Extinguishing Media: Foam, CO₂, Dry Chemical
Flash Point: (COC): > 400° F
Explosive Properties: LEL: 0.9% UEL: 7%
Hazardous Combustion Products: Not Available
Special Fire Fighting Procedures: Water should be avoided (grease product).

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spillage: Scoop up excess, wipe down affected area and pick up residue with clay, pumice, etc., to avoid walking hazard.
Environmental Precautions: Do not allow spillage into water ways.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures: No special handling precautions necessary.
Storage Requirements: Normal - prefer under 125° F.
Engineering Controls: Not available

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required.
Hand Protection: Protective gloves for hypersensitive persons.
Eye Protection: Protective glasses if applied to moving parts.

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Zinc Dust Petrolatum Anti-Seize Compound (A-A-59313) Continued

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Dark Gray Paste Specific Gravity: Not Available VOC: 0.0 lbs/gal (as solid material) Boiling Point: > 375° F Melting Point: >135° F Freezing Point: Not Available	Odor: Light Petroleum Odor Threshold: Not Determined pH: Neutral Density: Not Available Evaporation Rate (Butyl Acetate + 1.0): N/A	Vapor Pressure: Not Available Vapor Density: Not Determined Solubility in Water: Insoluble
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SECTION 10 – STABILITY AND REACTIVITY

Stability: Chemically stable under normal conditions.

Conditions/Materials to Avoid: Strong organic & inorganic acids, oxidizing agents.

Hazardous Decomposition Products: Burning generates smoke, leaving residue of soot & metal oxides.

Hazardous Polymerization: Will not occur

SECTION 11 – TOXICOLOGY INFORMATION

Exposure Limit of Material: See Section 2

Teratogenicity, Embryotoxicity and/or Fetotoxicity: Not Available

Mutagenicity: Not Available

Effects of Long-Term (Chronic) Exposure: None Known

Carcinogenicity: None NTP: NO IARC: NO OSHA: NO

SECTION 12 – ECOLOGICAL INFORMATION

Zinc in the metallic dust form is insoluble but its processing or extended exposure in the aquatic or terrestrial environments may lead to the release of zinc in bioavailable forms. Zinc is mobile and can be toxic in the aquatic environment with water hardness, pH and dissolved organic carbon content being regulating factors. It bioaccumulates in both plant and animal in terrestrial and aquatic systems. Zinc is moderately mobile in soils and is dependent on soil conditions, such as cation exchange capacity, pH, redox potential & chemical species present in the soil. Zinc also bioaccumulates in terrestrial plants, vertebrates and mammals with plant uptake dependent on soil composition.

SECTION 13 – DISPOSAL CONSIDERATION

Consult federal, state and local regulations for disposal of petroleum products.

SECTION 14 – TRANSPORTATION INFORMATION

D.O.T.: Not Regulated: PZM Zinc dust is not classified as dangerous goods D.O.T. Canada or US regulations.

IMDG: Not Regulated. PZM Zinc dust is not classified as dangerous goods under the Int'l Marine Dangerous Goods Regs.

SECTION 15 – REGULATORY INFORMATION

The zinc dust used in this product was laboratory tested to determine classification for transportation according to (flammable solids) (self heating substances) (substances which on contact with water emit flammable gases) against the following regulations:

1) Trans of Dangerous Goods Act & Regulations (Canada) 2) 49 CFR, parts 100 to 177, revised as of Oct 1, 1992, Part 173, Appendix E. 3) Int'l Marine Dangerous Goods Regulation. 4) 1995 IATA Flammable Solids Division 4.1

CERLA Sec 103 Hazardous Substance--Zinc Yes RQ: 1001lb (454kg) zinc dust less than 100 micron particle size and packaged in a single container of 1000lbs or greater must be labeled: Environmentally hazardous substance, solid n.o.s. (Zinc Dust), class 9, UN 3077, pgk III. Shipping BOL to include emergency phone 24/7.

40 CFR Part 372 (SARA Section 313): Zinc. SARA 311/312: None. **WHMIS (Canada):** Not Regulated. **TSCA:** All components listed.

TSCA 12B Components: Zinc

EPCRA Section 302 (Zinc Dust) Extremely Hazardous Substance – NO

EPCRA Section 313 Toxic Release Inventory—Zinc Dust-CAS 7440-66-6 Percent by Weight 99%+

SECTION 16 – OTHER INFORMATION

Do not reuse containers. Keep out of each of children.

This M.S.D.S and the information it contains is offered to you in good faith as accurate. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents.

HMS SYMBOL

HEALTH	1
FLAMMIBILITY	1
REACTIBILITY	1
PPI	NR

NFPA SYMBOL

