# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
US - OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Issuing Date** 27-Jul-2022 **Revision Date** 16-Nov-2023 **Revision Number** 2

## 1. Identification

**Product identifier**

**Product Name** ARMITE-LP-250F (Lead-Plate 250F) High Temperature Anti-Seize Compound for Coarse Threads

**Other means of identification**

**Product Code(s)** 03-04, 03-05, 03-06

**UN/ID no** UN3077

**Synonyms** Commercial Grade – MIL-PRF-907F

**Recommended use of the chemical and restrictions on use**

**Recommended use** Anti-seize/Sealant

**Restrictions on use** Do not use with pure Oxygen and Freon gases

**Details of the supplier of the safety data sheet**

**Manufacturer Address**
Armite Laboratories Inc., dba Armite Lubricants
1218 Commerce Court Suite B
Lafayette, CO 80026
+1 720-262-5480

**E-mail** sales@armite.com

**Emergency telephone number**

**24 Hour Emergency Phone Number** 888-255-3924

**Emergency telephone** No information available

## 12. Hazard(s) identification

**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

| | |
|---|---|
| Carcinogenicity | Category 1A |
| Reproductive toxicity | Category 1A |
| Effects on or via lactation | Yes |

**Hazards not otherwise classified (HNOC)**
Not applicable.

**Label elements**

**Danger**

**Hazard statements**
May cause cancer.
May damage fertility or the unborn child.
May cause harm to breast-fed children.
**Precautionary Statements - Prevention**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/clothing and eye/face protection.
Do not breathe dusts or mists.
Avoid contact during pregnancy and while nursing.
Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
**Precautionary Statements - Response**
**IF** exposed or concerned: Get medical advice/attention.
**Precautionary Statements - Storage**
Store locked up.

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant.

**Other information**
Very toxic to aquatic life with long lasting effects.

## 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

| Chemical name | CAS No. | Weight-% | Trade secret |
|---|---|---|---|
| Lead Powder | 7439-92-1 | 60-75 | |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | 17-25 | |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

**Description of first aid measures**

**General advice** IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids.

**Skin contact** Wash skin with soap and water.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Effects of Exposure** May cause cancer. May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. Fire-fighting measures

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

**Specific hazards arising from the chemical** No information available.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. Handling and storage

**Precautions for safe handling**

**Advice on safe handling** Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place and away from direct sunlight/UV light. Keep out of the reach of children. Store at 15.56 - 26.66°C / 60 - 80°F.

## 8. Exposure controls/personal protection

**Control parameters**

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|---|---|---|---|
| Lead Powder<br>7439-92-1 | TWA: 0.05 mg/m3 | TWA: 50 µg/m3 | IDLH: 100 mg/m3<br>TWA: 0.050 mg/m$^3$ |

**Biological occupational exposure limits**

| Chemical name | ACGIH |
|---|---|
| Lead Powder<br>7439-92-1 | 200 µg/L - blood (Lead) - not critical |

**Appropriate engineering controls**

**Engineering controls** Showers
Eyewash stations
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** No special protective equipment required.

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** No information available.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

**Appearance** Dark Gray Paste
**Physical state** Solid
**Color** Dark Gray

| | |
|---|---|
| **Odor** | Mild Petroleum |
| **Odor threshold** | No data available |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **pH** | | No data available |
| **pH (as aqueous solution)** | | No data available |
| **Melting point/ freezing point** | 54.39 °C / 129.9 °F | No data available |
| **Initial boiling point and boiling range** | > 204 °C / > 399.2 °F | No data available |
| **Flash point** | | No data available |
| **Evaporation rate** | | No data available |
| **Flammability** | | No data available |
| **Flammability Limit in Air** | | |
| **Upper flammability or explosive limits** | | No data available |
| **Lower flammability or explosive limits** | | No data available |
| **Vapor pressure** | | No data available |
| **Relative vapor density** | | No data available |
| **Relative density** | 1.93 | No data available |
| **Water solubility** | Insoluble in water | No data available |
| **Solubility(ies)** | | No data available |
| **Partition coefficient** | | No data available |
| **Autoignition temperature** | | No data available |
| **Decomposition temperature** | | No data available |
| **Kinematic viscosity** | | No data available |
| **Dynamic viscosity** | | No data available |

**Other information**

| | |
|---|---|
| **Explosive properties** | No information available |
| **Oxidizing properties** | No information available |
| **Softening point** | No information available |
| **Molecular weight** | No information available |
| **VOC content** | None |
| **Liquid Density** | No information available |
| **Bulk density** | No information available |

## 10. Stability and reactivity

**Reactivity** None under normal use conditions.

**Chemical stability** Stable under normal and foreseeable conditions of storage and use.

**Possibility of hazardous reactions** None under normal processing.

**Conditions to avoid** High temperatures of above 2987°F (1641°C) and at low temperatures of -350°F (-212°C) below freezing under conditions of use. Flames.

**Incompatible materials** Strong oxidizing agents, strong acids, and strong bases, Hydrogen peroxide, Freon gases.

**Hazardous decomposition products** Carbon oxides, Lead oxides.

## 11. Toxicological information

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Acute toxicity**

**Numerical measures of toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document:**

**ATEmix (oral)** >5,000 mg/kg
**ATEmix (dermal)** >5,000 mg/kg
**ATEmix (inhalation-dust/mist)** >5.0 mg/l

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Lead Powder 7439-92-1 | 5000 mg/kg ( Rat ) | | 5.05 mg/L (Rat) 4 h |
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | > 15 g/kg ( Rat ) | > 5000 mg/kg ( Rabbit ) | |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Lead Powder 7439-92-1 | A3 | Group 2A | Reasonably Anticipated | **X** |
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | A2 | Group 1 | Known | **X** |

**Legend**

**ACGIH (American Conference of Governmental Industrial Hygienists)**
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
**IARC (International Agency for Research on Cancer)**
Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans
**NTP (National Toxicology Program)**
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**
X - Present

**Reproductive toxicity** Classification based on data available for ingredients. May damage fertility or the unborn child. May cause harm to breast-fed children.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target organ effects** Kidney. Eyes. Central nervous system. Blood. Gastrointestinal tract (GI). Gingival Tissue.

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

**Interactive effects** No information available.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Product Information | |
|---|---|
| Species | Fish |
| Endpoint type | LC50 |
| Effective dose | 1 - 0.44 mg/L |
| Exposure time | 96 hours |

| | |
|---|---|
| Species | Daphnia magna |
| Endpoint type | EC50 |
| Effective dose | 1 - 600 µg/l |
| Exposure time | 48 hours |

| | |
|---|---|
| Species | Fish |
| Endpoint type | LC50 |
| Effective dose | 2 - 1.17 mg/L |
| Exposure time | 96 hours |

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Lead Powder<br>7439-92-1 | | LC50: =0.44mg/L (96h, Cyprinus carpio)<br>LC50: =1.17mg/L (96h, Oncorhynchus mykiss)<br>LC50: =1.32mg/L (96h, Oncorhynchus mykiss) | | EC50: =600µg/L (48h, water flea) |
| Petroleum distillates, hydrotreated heavy paraffinic<br>64742-54-7 | | LC50: >5000mg/L (96h, Oncorhynchus mykiss) | | EC50: >1000mg/L (48h, Daphnia magna) |

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.

## 13. Disposal considerations

**Disposal methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. Transport information

**DOT**

| | |
|---|---|
| **UN/ID no** | UN3077 |
| **Extended proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead) |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **Reportable Quantity (RQ)** | (Lead: RQ (kg)= 4.54) Lead: RQ (lb)= 10 |
| **Reportable quantity (kg) (calculated)** | Lead: RQ (kg)= 7 |
| **Reportable quantity (lbs) (calculated)** | Lead: RQ (lb)= 14.00 |
| **Special Provisions** | 146,335, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33, 8 |
| **DOT Marine Pollutant** | I |
| **Marine pollutant** | Lead |
| **Description** | UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead), 9, **III,** Marine pollutant |
| **Emergency Response Guide Number** | 171 |

**IATA**

| | |
|---|---|
| **UN number or ID number** | UN3077 |
| **UN proper shipping name** | Environmentally hazardous substance, solid, n.o.s. (Lead) |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **IATA Technical Name** | Lead |
| **Description** | UN3077, Environmentally hazardous substance, solid, n.o.s. (Lead), 9, III |
| **Special Provisions** | A97,A158,A179,A197,A215 |
| **ERG Code** | 9L |

**IMDG**

| | |
|---|---|
| **UN number or ID number** | UN3077 |
| **UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead) |
| **Transport hazard class(es)** | 9 |
| **Packing group** | III |
| **IMDG Technical Name** | Lead |
| **Marine pollutant** | p |
| **Description** | UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead), 9, 111, Marine pollutant |
| **Special Provisions** | 274,335,966,967,969 |
| **EmS-No.** | F-A, S-F |

## 15. Regulatory information

**International Inventories**

Contact supplier for inventory compliance status

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

**US Federal Regulations**

**SARA313**

Section 313 ofTitle Ill of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name | SARA 313 - Threshold Values% |
|---|---|
| Lead Powder - 7439-92-1 | 0.1 |

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA {Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

| Chemical name | CWA- Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Lead Powder 7439-92-1 | | X | X | |

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | Reportable Quantity (RQ) |
|---|---|---|---|
| Lead Powder 7439-92-1 | 10 lb | | RQ 10 lb final RQ<br>RQ 4.54 kg final RQ |

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals:.

| Chemical name | California Proposition 65 |
|---|---|
| Lead Powder - 7439-92-1 | Carcinogen<br>Developmental<br>Female Reproductive<br>Male Reproductive |

**U.S. State Right-to-Know Regulations**

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Lead Powder 7439-92-1 | X | X | X |

| | | | |
|---|---|---|---|
| Naphthenic acid<br>1338-24-5 | X | X | X |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

## 16. Other information

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NFPA** | **Health hazards** 0 | **Flammability** 0 | **Instability** 0 | **Special hazards** - |
| **HMIS** | **Health hazards** * 2 | **Flammability** 0 | **Physical hazards** 0 | **Personal protection** X |

*Chronic Hazard Star Legend* * = *Chronic Health Hazard*

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend**
SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
STOT: Specific Target Organ Toxicity
ATE: Acute Toxicity Estimate
LC50: 50% Lethal Concentration
LD50: 50% Lethal Dose

**Legend Section 8: Exposure controls/personal protection**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | Sk* | Skin designation |
| + | Sensitizers | | |

**Key literature references and sources for data used to compile the SDS**
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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**Revision Note** Change in classification.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet