

SAFETY DATA SHEET



Revision Date: 01/27/2016
Revision Number: 001.4

1. PRODUCT AND COMPANY INFORMATION

Product Name:	Automotive / Marine 609 Lead Based Compound	Item number(s):	04-04, 04-05, 04-06
Product Type:	Anti-Seize Compound	Region(s):	U.S.A
Restriction of Use:	None Identified	Telephone:	949 646-9035
Company Address:	Armite Laboratories Inc. 1560 Superior Ave. Ste. A-4 Costa Mesa, CA 92627	Product Emergency:	CHEM-TEL 800-225-3924

2. HAZARD IDENTIFICATION

Classification of Substance or Mixture (GHS-US)

Signal Word	Hazard Class	Hazard Category	Hazard Pictograms
DANGER	Acute Toxicity (oral)	4	
	Acute Toxicity (inhalation as mist)	4	
	Carcinogenicity	1B	
	STOT RE (Specific Target Organ Toxicity - Repeated Exposure)	1	
	Aquatic Acute	1	
	Aquatic Chronic	1	

Hazard Statements (GHS-US)

May cause cancer.
May damage fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements (GHS-US)

Prevention: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

Response: If swallowed do not induce vomiting.
If Inhaled Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If exposed or concerned: Get medical advice/attention.
Call a POISON CENTER, doctor/physician, or get medical attention if you feel unwell.
Collect spillage. Hazardous to the aquatic environment.

Storage: Protect from sunlight. Store in a well-ventilated place.
Store locked up.

Disposal: Dispose of contents/container to hazardous material waste-site according to local, regional, national, federal & international regulations.

Other Hazards: Other hazards not contributing to the classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. **ATTENTION! –Contains Lead.** Exposure may aggravate individuals with pre-existing skin, kidney, liver, and pulmonary disorders.

SAFETY DATA SHEET



Revision Date: 01/27/2016
Revision Number: 001.4

Unknown Acute Toxicity (GHS-US): Not available

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*
Lead Powder	7439-92-1	69-71%
Petroleum Hydrocarbons (Highly Refined Mineral Oil C15-C50)	Mixture (53%) 64742-58-1 (47%) 64742-01-4	*
Highly Refined Mineral Oil & Additives (containing <3% (w/w) DSMO-extract, according to IP346)	Mixture	*
Microcrystalline Wax	63231-60-7	*
Aluminum Powder	7429-90-5	*

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

4. FIRST AID MEASURES

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate area. Obtain medical attention if breathing difficulty persists.

Skin contact: Wash thoroughly with soap & water after exposure. Launder contaminated clothing. Obtain medical attention if irritation persists.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing. Obtain medical attention is irritation persists.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical attention if large amount is swallowed. If vomiting occurs spontaneously, keep head below hips to prevent aspiration seek medical attention.

Symptoms: Most Important Symptoms ad Effects Both Chronic and Delayed

General: May cause cancer. May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful if swallowed. Harmful if inhaled.

Inhalation: Harmful if inhaled. Respiratory tract irritation. If material enters lungs, signs & symptoms may include coughing, wheezing, choking, difficulty in breathing, chest congestion, shortness of breath, and/or fever.

Skin Contact: May cause skin irritation.

Eye contact: May cause mechanical irritation if gets into eyes.

Ingestion: Harmful if swallowed. May cause nausea, vomiting, and diarrhea.

Chronic Symptoms: ATTENTION! CONTAINS LEAD. Lead: Exposure can result in lassitude (weakness, exhaustion). Insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; encephalopathy; kidney disease; hypertension. Prolonged exposure may cause effects in specific organs such as the liver, kidneys, blood and nervous system.

Indications of Any Immediate Medical Attention and Special Treatment Needed:

If exposed or concerned get medical advice and attention.

5. FIRE FIGHTING MEASURES

SAFETY DATA SHEET



Revision Date: 01/27/2016
Revision Number: 001.4

Suitable extinguishing media: Treat as oil fire: Water spray (fog), foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: Do not use water jet as oil will float on water and can spread fire.

Unusual fire or explosion hazard: Closed container may explode when exposed to extreme heat.

Hazardous combustion products: Oxides of lead and carbon.

Protective equipment: Self contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

General Measures: Keep away from heat/spark/open flames/hot surfaces. NO Smoking. Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not allow product to enter sewer or public waters. Do not allow to enter drains or water courses.

Clean-up method: Contaminated surfaces will be extremely slippery. Scrape up as much material as possible. Use absorbent material to clean up spill as much as possible. Do not dispose of material in trash. Follow local regulations to dispose of hazardous waste safely.

7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Do not cut weld or reuse containers. WARNING! Contains Lead.

Storage: Keep container tightly closed in a cool, well ventilated area. Incompatible materials: Strong oxidizers, strong acids & bases.

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.

Recommendation(s): Protective gloves for hypersensitive persons. Protective goggles or face shield when working with moving parts.

Hazardous Component(s)	ACGIH TLV	OSHA PEL
Lead	0.05 mg/m ³ TWA as (Pb)	50µg/m ³ (TWA)
Petroleum Hydrocarbons	TVL: 5mg/m ³ (oil Mist) 8 hr day	Not Available
Industrial Grease (Oil mist mineral)	5mg/m ³ TWA (Inhalable fraction)	PEL 5mg/m ³ (mist) TWA 5mg/m ³ (mist)
Aluminum Powder	TWA: 1mg/m ³ (Respirable fraction)	TWA 15mg/m ³ (total Dust) 5mg/m ³ (Respirable fraction)

Exposure Controls

Appropriate Engineering Controls:

Ensure all national /local regulations are observed. Use explosion proof equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposures. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment:

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

SAFETY DATA SHEET



Revision Date: 01/27/2016
Revision Number: 001.4

Skin & Body Protection: Wear suitable protective clothing.

Respirator Protection: Use NIOSH-approved air purifying or supplied-air respirator where airborne concentrations (oil mist/dust) are expected to exceed exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste	Vapor Pressure:	Not available
Color :	Dark Grey	Vapor density:	Not Determined
Odor:	Mild petroleum	Relative Density:	Not Determined
Odor threshold:	Not available	Solubility(ies):	Insoluble in water
pH:	Not available	VOC content:	Essential nil
Melting point /range:	54.4°C (130°F)	Specific gravity:	1.93
Boiling point / range:	>204° C (>400° F)	Viscosity:	Not available
Flash point:	Undetermined	Auto-ignition temp:	Not determined
Flammable/Explosive limits		Evaporation rate:	Not available
Lower limits:	Not available	Partition coefficient:	
Upper limits:	Not available	n-octanol/water;	Not determined

10. STABILITY AD REACTIVITY

Stability:	Stable under normal conditions.
Reactivity:	Not available.
Conditions to avoid:	Direct sunlight. Heat sources such as direct flame.
Hazardous polymerization:	Will not occur.
Incompatible materials:	Strong oxidizing agents. Hydrogen peroxide. Strong acids & strong bases.
Hazardous decomposition products:	Oxides of lead & carbon. At temperatures above melting point, lead fumes may be evolved.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Eyes, Inhalation, Ingestion

Potential Health Effects/Symptoms

Inhalation: Harmful if inhaled. Inhalation of vapors from heated material may cause irritation.

Skin contact: May cause skin irritation.

Eye contact: May cause mechanical eye irritation.

Ingestion: Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Symptoms (LEAD): Exposure can result in weakness, exhaustion, insomnia, facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; encephalopathy; kidney disease; hypertension. Prolonged exposure may cause effects in specific organs such as: liver, kidneys, blood, and nervous systems.

SAFETY DATA SHEET



Revision Date: 01/27/2016
Revision Number: 001.4

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Effects
Lead	ATE (oral) 500.00mg/kg body wt. ATE (dust, mist) 1.500 mg/l/4h	Reproductivity-may damage fertility or the unborn child Target Organ- Kidney, Blood, Liver & nervous system, gingival tissue. Developmental Toxicity
Petroleum Hydrocarbons	Acute oral Rat LD50 >5g/kg body wt	Not Available
Industrial Grease	(Oral) Rat >5000 mg/kg (Dermal) Rabbit >5000 mg/kg	None known
Aluminum Powder (dust/fumes)	No information available.	Generally considered to be biologically inert.

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Lead	Reasonably Anticipated Carcinogen	Group 2A	No
Petroleum Hydrocarbons	No	No	No
Industrial Grease Mixture	No	No	No
Aluminum	No	No	No

12. ECOLOGICAL INFORMATION

Toxicity Ecology – General: Very toxic to aquatic life with long lasting effects.

Lead (7439-92-1) - LC Fish 1 0.44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 1 600µg/l (Exposure time: 48 h – Species: water flea)
LC 50 Fish 2 1.17mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

Aluminum (7429-90-5) Information not available

Persistence and Degradability

Lead Powder – May cause long-term adverse effects in the environment.

Bioaccumulation Potential: Contains components with the potential to bioaccumulate.

Mobility in Soil: Not available

Other Adverse Effects: Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Recover and recycle whenever possible.

The materials contained in the product are hazardous to the environment, DO NOT release into the environment. Dispose of contents and container properly in accordance with all local, regional, national, provincial, territorial and international regulations.

It is the responsibility of the waste generator to determine proper waste classification and disposal methods in compliance with applicable regulations.

Danger: CONTAINS LEAD! DO NOT dispose of into the environment, in drains or in water courses.

14. TRANSPORTATION INFORMATION

SAFETY DATA SHEET



Revision Date: 01/27/2016
Revision Number: 001.4

(49 CFR) DOT
ORM D / LTD QTY

(IMDG / IMO)
Regulated (See below)

(IATA / ICAO)
Regulated (See below)**

Additional Shipping Information:

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (lead mixture)
UN number: 3077
Hazard class: 9
Packing group: III

****Under Special Provision A197: Not regulated for transport by air for per package net weight of 5 kg or less.**

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA: Listed on the US TSCA (Toxic Substance Control Act) inventory.

SARA Section 302: None listed.

SARA Section 311/312: None Listed

SARA Section 313: Listed (Lead7439-92-4) Aluminum (7429-90-5) 1.0% de minimis concentration (dust or fume only)

California Proposition 65 Listings:

LEAD:

Carcinogens List - WARNING: This product contains chemicals known to the State of CA to cause cancer.

Developmental Toxicity – WARNING: This product contains chemicals known to the State of CA to cause birth defects.

Reproductive Toxicity Female – WARNING: This product contains chemicals known to the State of CA to cause (Female) reproductive harm.

Reproductive Toxicity Male – WARNING: This product contains chemicals known to the State of CA to cause (Male) reproductive harm.

ALUMINUM : California –Listed 8 CCR Section 339- Director's List of Hazardous Substances

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

This SDS has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard CFR 1910.1200.

Prepared by: Armite Laboratories Inc.

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