

Powers Fasteners, Inc. • 2 Powers Lane, Brewster, NY, USA 10509 • Phone (914) 235-6300

MATERIAL SAFETY DATA SHEET

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**Product identifier: 2%-4% Antimonial Lead Used in Anchors
Calk-in (anchor sleeve), Fiberplug (liner), Scru-Lead (anchor body)**

Product use: Anchor.
Chemical Family: Mixture.

Supplier's name and address:
Powers Fasteners, Inc.

2 Powers Lane
Brewster, NY, U.S.A.
10509

Phone: 914-235-6300 (8 AM to 8 PM EST, Monday to Thursday; 8 AM to 7 PM EST, Friday)

Emergency Tel. #: CHEMTREC – 800-424-9300

Manufacturer's name and address:
Refer to Supplier

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>% (weight)</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
			<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Lead	7439-92-1	96 – 98	0.05 mg/m ³	N/Av	0.05 mg/m ³ (final rule)	N/Av
Antimony	7440-36-0	2 – 4	0.5 mg/m ³	N/Av	0.5 mg/m ³	N/Av

This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

SECTION 3 — HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Dark gray, odorless solid.

Caution! Dusts or fumes may cause irritation to the eyes, skin and respiratory tract.

Contains material which may cause cancer. Contains material which may be teratogenic.

Contains material which may be mutagenic. Contains material which may cause nervous system, liver or kidney damage.

POTENTIAL HEALTH EFFECTS

Target organs: Eyes, skin, respiratory system, digestive system, central nervous system, peripheral nervous system, liver, kidneys, heart, and blood system.

Routes of exposure: Skin contact, eye contact, ingestion and inhalation.

Signs and symptoms of short-term (acute) exposure:

Inhalation: Inhalation of dust or fumes may cause irritation to the upper respiratory tract. In rare cases, inhalation of higher concentrations may cause headache, fatigue, nausea, vomiting and diarrhea.

Skin: Direct contact with dusts may cause irritation.

Eyes: Dusts may cause irritation as a foreign body.

Ingestion: May cause gastrointestinal discomfort, including nausea, cramping, vomiting and diarrhea.

Chronic effects: Repeated or prolonged skin exposure to dusts may result in drying, cracking and defatting of the skin (dermatitis). Prolonged or excessive overexposure to dusts or fumes may cause damage to the central and peripheral nervous systems, liver, kidneys, heart and blood system.

Conditions aggravated by exposure: Pre-existing skin, eye and respiratory disorders.

Carcinogenic status: Contains material which may cause cancer. See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards: Potential teratogen and mutagen. See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects: See ECOLOGICAL INFORMATION Section 12.

SECTION 4 — FIRST AID MEASURES

Inhalation: Immediately remove person to fresh air. If breathing is difficult, oxygen may be administered by qualified personnel. Seek immediate medical attention.

Skin contact: Wash thoroughly with soap and water. Seek medical attention if symptoms develop or persist.

Eye contact: Immediately flush eyes with running water for a minimum of 15 minutes. Remove contact lenses if they are worn. Seek immediate medical attention.

Ingestion: Do not induce vomiting. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person.

Note to Physicians: Treat symptomatically.

SECTION 5 — FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability: This product is non-flammable. Closed containers may explode if exposed to excess heat or flame.

Flammability classification (OSHA 29 CFR 1910.1200): Non-Flammable.

Flash point (Method): N/Av

Auto-ignition temperature: N/Av

Lower flammable limit (% by vol.): N/Av

Upper flammable limit (% by vol.): N/Av

Explosion data: *Sensitivity to mechanical impact / static discharge:* Not expected to be sensitive to mechanical impact or static discharge.

Oxidizing properties: None known.

Suitable extinguishing media: Use media suitable for surrounding fire such as dry chemical, carbon dioxide or water fog.

Special fire-fighting procedures/equipment: Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece. Shield personnel to protect from venting, rupturing or bursting containers. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment exposed to heat and flame.

Hazardous combustion products: Lead oxide fumes, antimony oxide and other toxic or irritating fumes and smoke.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions: Ensure the product does not enter drains, sewers, waterways or confined spaces.

Spill response/Cleanup: Eliminate all sources of heat, sparks and flame. Ventilate area of release. Stop leak if you can do so without risk. Notify the appropriate authorities as required.

Prohibited materials: None known.

Special spill response procedures: In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).

DOT/CERCLA Reportable quantity (RQ): Lead (10 lbs); Antimony (5000 lbs)

SECTION 7 — HANDLING AND STORAGE

Safe handling procedures: This material is a potential carcinogen, teratogen and mutagen. Wear protective equipment during handling. Use in a well-ventilated area. Do not inhale dusts or fumes. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Keep away from acids and incompatibles. Do not puncture or incinerate containers. Keep away from incompatibles (see Section 10). Use caution when opening cap. Keep container tightly closed when not in use. Assume empty containers contain residues, which are hazardous.

Storage requirements: Store in a cool, dry, well-ventilated area away from sources of heat and ignition. Keep away from incompatibles (see Section 10). Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Special packaging materials: Always keep in containers made of the same materials as the supply container.

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SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering controls: Use adequate ventilation to maintain air contaminants below exposure limits. Local and/or general exhaust may be required

Respiratory protection: Respiratory protection is required if the airborne concentration exceeds exposure limits. When concentrations exceed the exposure limits specified, use NIOSH/MSHA-approved air-purifying respirators. In poorly ventilated or confined spaces, use a NIOSH/MSHA-approved self-contained breathing apparatus. Advice should be sought from respiratory protection specialists.

Skin protection and other protective equipment: It is recommended that protective gloves impervious to the material be worn at all times during use. Confirmation of what type of material is most suitable for the intended application should be obtained from glove suppliers. Additional impervious protective clothing is recommended to prevent skin contact. An eyewash station and safety shower should be made available in the immediate working area.

Eye / face protection: Wear safety glasses with side shields or goggles meeting ANSI requirements.

General hygiene considerations: Do not inhale dusts or fumes. Avoid contact with eyes and skin. Do not eat, drink or smoke when working. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.

Permissible exposure levels: For individual ingredient exposure levels, see Section 2.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical state, odor and appearance: Dark gray, odorless solid.

Odor threshold: N/Av

Specific gravity: 11.37

Vapor pressure: N/Av

Boiling point: 1380°C / 2516°F

Evaporation rate (n-Butyl acetate = 1): N/Av

Coefficient of water/oil distribution: N/Av

Solubility in water: Nil

Vapor density (Air = 1): N/Av

Freezing point: 252-360°C / 486-680°F

pH: N/Av

Volatiles (% by weight): 0

SECTION 10 — REACTIVITY AND STABILITY DATA

Stability and reactivity: Stable under recommended storage and handling methods.

Hazardous polymerization: Will not occur.

Conditions to avoid: Contact with sparks, flame and other sources of ignition.

Materials to avoid (incompatibles): Strong oxidizers (e.g. chlorine, peroxides, etc.) and strong acids.

Hazardous decomposition products: None known. Refer also to 'Hazardous Combustion products', Section 5.

SECTION 11 — TOXICOLOGICAL INFORMATION

Carcinogenic status: Lead is classified as carcinogenic by IARC (2A), ACGIH (A3) and NTP (reasonably anticipated).

Reproductive effects, Teratogenicity, Mutagenicity: Lead is considered to cause reproductive effects, teratogenicity and mutagenicity.

Sensitization to material: Not expected to be a skin or respiratory sensitizer.

Other important hazards: Not available.

Synergistic materials: Not available.

Toxicological data: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Ingredients	LC ₅₀ (ppm/4hr) inh, rat	LD ₅₀ (mg/kg)	
		oral, rat	dermal, rabbit
Lead	Not available	Not available	Not available
Antimony	Not available	7000	Not available

SECTION 12 — ECOLOGICAL INFORMATION

Chemical fate information: The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. Do not discharge product unmonitored into the environment.

Ecotoxicological information: There is no data available on the product itself.

SECTION 13 — DISPOSAL CONSIDERATIONS

Handling for disposal: Empty containers may contain product residue dust or fumes. Handle according to recommendations listed in Section 7.

Methods of disposal: Dispose in accordance with all applicable federal, state, provincial and/or local regulations. Contact your local, state, provincial and/or federal environmental agency for specific rules.

RCRA: If this product, as supplied, becomes a waste, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. Under the RCRA, it is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 — TRANSPORTATION INFORMATION

US 49 CFR information:

This product is not specifically listed in the US 49 CFR Regulations.
However, it may be regulated as an environmental hazard. Consult the regulations.

Canadian Transportation of Dangerous Goods Regulations (TDGR) information:

This product is not specifically listed in the Canadian Transportation of Dangerous Goods Regulations.
However, it may be regulated as an environmental hazard. Consult the regulations.

International IATA / ICAO information:

This product is not specifically listed in the IATA or ICAO Regulations.
However, it may be regulated as an environmental hazard. Consult the regulations.

SECTION 15 — REGULATORY INFORMATION

US Federal Information:

TSCA information: All ingredients are listed on the TSCA inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III:

Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present.

Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute); Delayed (Chronic).

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material may be subject to SARA notification requirements, since it contains Lead and Antimony, Toxic Chemical constituents above the *de minimus* concentration.

US State Right to Know Laws:

California Proposition 65: This product contains Lead, which is known to the state of California to cause cancer, reproductive and developmental harm.

New Jersey Labeling Requirements: This product contains the following substances that may be required to be disclosed on product labeling:

Chemical Name	CAS #	% (weight)	New Jersey Hazardous Substance
Lead	7439-92-1	96 – 98	Yes
Antimony	7440-36-0	2 – 4	Yes
Arsenic	7440-38-2	<0.01	Yes

International Information:

Canadian WHMIS Classification: **Class D1B** (*Materials Causing Immediate and Serious Toxic Effects – Toxic Material*); **Class D2A** (*Materials Causing Other Toxic Effects – Very Toxic Material*); **Class D2B** (*Materials Causing Other Toxic Effects – Toxic Material*).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

Canadian CEPA information: All ingredients are present on the DSL.

SECTION 16 — OTHER INFORMATION

NFPA Rating:

0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: 2 Flammability: 0 Instability: 0 Special Hazard: None

HMIS Rating:

* - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: *2 Flammability: 0 Reactivity: 0

Prepared by: Powers Fasteners, Inc.

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- References:**
1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2006.
 2. International Agency for Research on Cancer Monographs - searched 2007.
 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2008 (Chempendium and RTECs).
 4. Material Safety Data Sheet from manufacturer.
 5. US EPA Title III List of Lists – January 27, 2005 version.
 6. California Proposition 65 List – September 28, 2007 version.

Legend: ACGIH: American Conference of Governmental Industrial Hygienists
AIHA: American Industrial Hygiene Association
CAS: Chemical Abstract Services
CERCLA: US Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: US Code of Federal Regulations
DOT: US Department of Transportation
DSL: Canadian Domestic Substances List
EPA: US Environmental Protection Agency
HMIS: Hazardous Materials Identification System
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IARC: International Agency for Research on Cancer
N/Ap: not applicable
N/Av: not available
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
RCRA: US Resource Conservation and Recovery Act
SARA: US Superfund Amendments & Reauthorization Act
STEL: Short Term Exposure Limit
TLV: Threshold Limit Values
TWA: Time Weighted Average
TSCA: Toxic Substance Control Act
WEEL: Workplace Environmental Exposure Level
WHMIS: Canadian Workplace Hazardous Materials Identification System

DISCLAIMER OF LIABILITY

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