

LEAD  
MATERIAL SAFETY DATA SHEET

From: Pilkington Competition Equipment, LLC.  
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LEAD METAL  
MSDS Number: L2347

## 1. Product Identification

- Synonyms: Ammunition, pellets, airgun pellets.
- CAS No.: 7439-92-1
- Molecular Weight: 207.19
- Chemical Formula: Pb
- Product Codes: Pilkington Competition- lead pellets, airgun pellets, Vogel USA-lead pellets, airgun pellets.

## 2. Composition/Information on Ingredients

Ingredients	Hazardous	CAS No.	Percent
Lead	Yes	7439-92-1	95-100%

## 3. Hazards Identification

### Emergency Overview

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POISON! DANGER! MAY BE FATAL IF SWALLOWED OR INHALED.  
CAUSES IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.  
NEUROTOXIN. AFFECTS THE GUM TISSUE, CENTRAL NERVOUS SYSTEM,  
KIDNEYS, BLOOD AND REPRODUCTIVE SYSTEM. POSSIBLE CANCER  
HAZARD. MAY CAUSE CANCER BASED ON ANIMAL DATA. Risk of cancer  
depends on duration and level of exposure.

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Health Rating: 3- Severe (Life)

Flammability Rating: 0- None

Reactivity Rating: 0- None

Contact Rating: 1- Slight

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: Blue (Health)

### **Potential Health Effects**

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#### **Inhalation:**

Lead can be absorbed through the respiratory system. Local irritation of bronchia and lungs can occur and, in cases of acute exposure, symptoms such as metallic taste, chest and abdominal pain, and increased lead blood levels may follow. See also Ingestion.

#### **Ingestion:**

POISON! The symptoms of lead poisoning include abdominal pain and spasms, nausea, vomiting, headache. Acute poisoning can lead to muscle weakness, "lead line" on the gums, metallic taste, definite loss of appetite, insomnia, dizziness, high lead levels in blood and urine with shock, coma and death in extreme cases.

#### **Skin Contact:**

Lead and lead compounds may be absorbed through the skin on prolonged exposure; the symptoms of lead poisoning described for ingestion exposure may occur. Contact over short periods may cause local irritation, redness and pain.

#### **Eye Contact:**

Absorption can occur through eye tissues but the more common hazards are local irritation or abrasion.

#### **Chronic Exposure:**

Lead is a cumulative poison and exposure even to small amounts can raise the body's content to toxic levels. The symptoms of chronic exposure are like those of ingestion poisoning: restlessness, irritability, visual disturbances, hypertension and gray facial color may also be noted.

#### **Aggravation of Pre-existing Conditions:**

Persons with pre-existing kidney, nerve or circulatory disorders or with skin or eye problems may be more susceptible to the effects of this substance.

## **4. First Aid Measures**

#### **Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### **Ingestion:**

Induce Vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

**Skin Contact:**

Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical Attention immediately.

## 5. Fire Fighting Measures

**Fire:**

Not considered to be fire hazard. Powder/dust is flammable when heated or exposed to flame.

**Explosion:**

Not considered to be an explosion hazard.

**Fire Extinguishing Media:**

Use any means suitable for extinguishing surrounding fire. Do not allow water runoff to enter sewers or waterways.

**Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Can produce toxic lead fumes at elevated temperatures and also react with oxidizing materials.

## 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. US Regulations (CERCLA) require reporting spills and releases to soil. Water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center in (800) 424-8802.

## 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Areas in which exposure to lead metal or lead compounds may occur should be identified by signs or appropriate means, and access to the area should be limited to authorized persons. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## 8. Exposure Controls/Personal Protection

### **Airborne Exposure Limits:**

For lead, metal and inorganic dusts and fumes, as Pb: -OSHA Permissible Exposure Limit (PEL): 0.05 mg/m<sup>3</sup> (TWA)

For lead, elemental and inorganic compounds, as Pb:-ACGIH Threshold Limit Value (TLV): 0.05 mg/m<sup>3</sup> (TWA), A3 animal carcinogen ACGIH Biological Exposure Indices (BEI):30 ug/100ml, notation B (see actual Indices for more information).

For lead, inorganic: NIOSH Recommended Exposure Limit (REL): 0.1 mg/m<sup>3</sup> (TWA)

### **Ventilation Systems:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

### **Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded, a half-face high efficiency dust/mist respirator may be worn for up to 10 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece high efficiency dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

### **Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

### **Eye Protection:**

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

### **Other Control Measures:**

Eating, drinking, and smoking should not be permitted in areas where solids or liquids containing lead compounds are handled, processed, or stored. See OSHA substance-specific standard for more information on personal protective equipment, engineering and work practice controls, Medical surveillance, record keeping, and reporting requirements. (29 CFR 1910.1025).

## 9. Physical and Chemical Properties

**Appearance:**

Small, white to blue-gray metallic shot or granules.

**Odor:**

Odorless.

**Solubility:**

Insoluble in water.

**Density:**

11.34

**pH:**

No information found.

**% Volatiles by volume @21C (70 F):**

0

**Boiling Point:**

1740C (3164F)

**Melting Point:**

327.5C (622F)

**Vapor Density (Air=1)**

No information found.

**Vapor Pressure (mm11g):**

1.77 @1000C (1832F)

**Evaporation Rate (BuAc=1):**

No information found.

## 10. Stability and Reactivity

**Stability:**

Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:**

Does not decompose but toxic lead oxide fumes may form at elevated temperatures.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

Ammonium nitrate, chlorine trifluoride, hydrogen peroxide, sodium azide, zirconium, disodium acetylide, sodium acetylide and oxidants.

**Conditions to Avoid:**

Heat, flames, ignition sources and incompatibles.

## 11. Toxicological Information

### Toxicological Data:

Investigated as a tumorigen, mutagen, reproductive effector.

### Reproductive Toxicity:

Lead and other smelter emissions are human reproductive hazards. (Chemical Council on Environmental Quality; Chemical Hazards to Human Reproduction, 1981.)

### Carcinogenicity:

EPA / IRIS classification: Group B2- Probably human carcinogen, sufficient animal evidence.

-----\Cancer Lists\-----

| Ingredient<br>Category | ---NTP Carcinogen--- |             |      |
|------------------------|----------------------|-------------|------|
|                        | Known                | Anticipated | IARC |
| Lead (7439-92-1)       | No                   | No          | 2B   |

## 12. Ecological Information

### Environment Fate:

When released into the soil, this material is not expected to leach into groundwater. This material may bioaccumulate to some extent.

### Environment Toxicity:

No information found.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

Not regulated.

## 15. Regulatory Information

-----\Chemical Inventory Status – Part 1\-----

| Ingredient       | TSCA | EC  | Japan | Australia |
|------------------|------|-----|-------|-----------|
| Lead (7439-92-1) | Yes  | Yes | Yes   | Yes       |

-----\Chemical Inventory Status – Part 2\-----

--Canada--

| Ingredient       | Korea | DSL | NDSL |
|------------------|-------|-----|------|
| Lead (7439-92-1) | Yes   | Yes | No   |

-----\Federal, State & International Regulation – Part 1\-----

| Ingredient       | -SARA 302- | ---SARA |       |
|------------------|------------|---------|-------|
| Chemical Carg.   | RQ         | TPQ     | LISTL |
| Lead (7439-92-1) | No         | No      | Yes   |

-----\Federal, State & International Regulation – Part 2\-----

| Ingredient       | -RCRA- | -      |       |
|------------------|--------|--------|-------|
|                  | CERCLA | 261.33 | 8 (d) |
| Lead (7439-92-1) | No     | No     | No    |

Chemical Weapons Convention: No    TSCA 12 (B): No    CDTA: No  
 SARA 311 / 312: Acute: Yes    Chronic: Yes    Fire: No    Pressure: No  
 Reactivity: No    (Pure / Solid)

### WARNING:

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

**Australian Hazchem Code:** No information found.

**Poison Schedule:** S6

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the Information required by the CPR.

## 16. Other possible Trace Elements

Proprietary: NO

Ingredient: LEAD ( SARA 313) (CERCLA)

Ingredient sequence Number: 01

CAS Number: 7439-92-1

OSHA PEL SEE 1910.1025

ACGIH TLV: 0.15MG/M3 DUST; 9495

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Proprietary: NO

Ingredient: ALLOYS CONTAINING INGS 3-7

Ingredient sequence Number: 02

NIOSH (RTECSO) Number: 1001098AL

OSHA PEL: N/K (FPN)

ACGIH TLV: N/K (FPN)

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Proprietary: NO

Ingredient: ANTIMONY; (SB) (SARA 313) (CERCLA)

Ingredient sequence Number: 03

NIOSH (RTECS) Number CC4025000

CAS Number 7440-36-0

OSHA PEL: 0.5 MG/M3

ACGIH TLV: 0.5 MG (SB) M3; 9405

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Proprietary: NO

Ingredient: TIN; (SN)

Ingredient sequence Number: 04

NIOSH (RTECS) Number: XP7320000

CAS Number: 7440-31-5

OSHA PEL: 2 MG/M3

ACGIH TLV: 2MG/M3, 9495

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Proprietary: NO

Ingredient: ARSENIC, (AS) (SARA 313) (CERCLA)



Ingredient sequence Number: 05  
NIOSH (RTECS) Number: CG0525000  
CAS Number; 7440-38-2  
OSHA PEL: SEE 1910.1018  
ACGIH TLV: 0.01 MG/M3 AL; 9495  
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Proprietary: NO  
Ingredient: COPPER; (CU) (SARA 313) (CERCLA)  
Ingredient sequence Number: 06  
NIOSH (RTECS) Number: GL5325000  
CAS Number: 7440-50-8  
OSHA PEL: 0.1 MG/M3 FUME/1 DUST  
ACGIH TLV: 0.2 MG/M3 FUME; 9495  
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Proprietary: NO  
Ingredient: CALCIUM; (CA)  
Ingredient sequence Number: 07  
NIOSH (RTECS) Number;EV8040000  
CAS Number: 7440-70-2  
OSHA PEL; N/K (FP N)  
ACGIH TLV; N/K (FP N)  
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## **17. Other InformationRegulatory Information**

NFPA Ratings: Health: 3 Flammability: 1 Reactivity: 0

Label Hazard Warning:

POISON! DANGER!MAY BE FATAL IF SWALLOWED OR INHALED.  
CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.  
NEUROTOXIN. AFFECTS THE GUM TISSUE, CENTRAL NERVOUS  
SYSTEM, KIDNEYS, BLOOD AND REPRODUCTIVE SYSTEM. POSSIBLE  
CANCER HAZARD. MAY CAUSE CANCER BASED ON ANIMAL DATA.

Risk of cancer depends

On duration and level of exposure.

Label Precautions:

Do not get in eyes, on skin, or on clothing.

Do not breathe dust.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Label First Aid:

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases, get medical attention.

Product Use:

Laboratory Reagent.

Revision Information:

No Changes.

Disclaimer:

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