MATERIAL SAFETY DATA SHEET

Sargent-Welch®
P.O. Box 1026
Skokie, IL 60076-8026
1-800-SARGENT

MSDS No. WLC4036T WLC4045 WLC4036V WLC4048T WLC4039T
Effective Date July 1, 1991

SECTION I NAME

Product	LEAD METAL, GRANULAR, SHOT, SHEET, FOIL
Chemical Synonyms	Lead Metal
Formula	Pb
Unit(s) Size	100, 500 grams; 2.5 Kg.
C.A.S. No.	7439-92-1

24 HOUR EMERGENCY ASSISTANCE

CHEMTREC
800-424-9300
Day 716-226-6177
Night 716-334-4222

Health	3
Fire	0
Reactivity	0

NFPA HAZARD RATING

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
Lead Metal, Shot, Granular, Sheet, Foil	99+%	See Section V.
DANGER! MAY BE HARMFUL OR FATAL IF SWALLOWED		
OR INHALED AS FUMES OR DUST.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Approx. 327.4°C (621°F)	Specific Gravity (H_2O = 1)	11.34 (20/4°C)
Boiling Point (°F)	1753°C (3187°F)	Percent Volatile by Volume (%)	0% at ambient Temp.
Vapor Pressure (mm Hg)	1 mm at 973°C	Evaporation Rate (=1)	Non-volatile (NA).
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	Insoluble.		
Appearance & Odor	Bluish-white, silvery, gray soft metal, granular, shot, sheet, foil; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	Lower	Upper
		NA	--------	--------
Extinguisher Media	Dry chemical or carbon dioxide should be used on surrounding fire. Do not use water on fires where molten metal is present.			

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated emits toxic fumes of lead which can react vigorously with oxidizing materials.

D.O.T.	NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

Lead as inorganic dusts and fumes, as Pb: TWA 0.[illegible] mg/m^3 STEL 0.45 mg/m^3 (ACGIH 1983-84).

Effects of Overexposure

SKIN: Not absorbed through skin. EYES: No specific hazard known. Contact may cause transient irritation. INGESTION: May produce anorexia, vomiting, malaise, convulsions due to increased intracranial pressure. INHALATION: Of dust or fumes can cause lead poisoning.

Emergency and First Aid Procedures

INHALATION AS DUST OR FUMES: Remove to fresh air and call a physician immediately. INGESTION: If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call physician. SKIN: Flush with water, then wash with soap and water. EYES: Flush eyes thoroughly with water. If irritation develops or persists, get medical attention.

SECTION VI REACTIVITY DATA

Stability		Conditions to Avoid
Unstable		High temperatures to produce fumes.
Stable	X	

Incompatibility (Materials to Avoid): Strong oxidizing materials, e.g. , chlorine trifluoride, hydrogen peroxide, sodium azide, sodium and potassium.

Hazardous Decomposition Products: When heated, emits toxic fumes of lead.

Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Carefully sweep up without producing dust and recycle for use or place in a suitable container for disposal.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in an approved chemical landfill or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type): None should be needed in normal laboratory use when working at room temperature. If dusty conditions prevail, work in ventilation hood or wear a NIOSH-approved dust mask or respirator.

Ventilation				
	Local Exhaust	None needed.	Special	No.
	Mechanical (General)	None needed.	Other	No.

Protective Gloves	Recommended - Leather.	Eye Protection	Chemical safety glasses.

Other Protective Equipment: Smock, apron, eye wash station, lab coat, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Store in a cool, dry place away from fire hazards. Wash thoroughly after handling. Remove and wash contaminated clothing.

Other Precautions: Read label on container before using. Do not wear contact lenses when working with chemicals.

Lead can react violently with oxidizing materials. Water may become trapped within surface cracks which may cause an explosion when the metal is molten.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No.	No. 3	Date	7/1/91	Approved	Alexander A. Piccirilli	Chemical Safety Coordinator	AP

Sargent-Welch®

IMPORTANT

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READ CAREFULLY BEFORE USING CHEMICAL

OSHA requires that this form be kept on file.

MSDS No. _____