

MATERIAL SAFETY DATA SHEET

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MSDS Number: SL1812 ; SL1814 ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: STRIP LEAD
HMIS Ratings:
NFPA Ratings:

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
LEAD	7439-92-1	99.9	0.05 MG/M ³	50 UG/M ³	30 UG/M ³ ACTION LEVEL		
Notes							

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: DUST, VAPOR AND/OR FUMES MAY CAUSE IRRITATION.

Skin: DUST, VAPOR AND/OR FUMES ARE NOT READILY ABSORBED THROUGH THE SKIN.

Ingestion: DUST, VAPOR AND/OR FUMES MAY BE ABSORBED BY THE DIGESTIVE SYSTEM, AND CAN RESULT IN BOTH ACUTE AND CHRONIC OVEREXPOSURE.

Inhalation: DUST, VAPOR AND/OR FUMES MAY BE IRRITATING TO THE RESPIRATORY SYSTEM AND CAN RESULT IN BOTH ACUTE AND CHRONIC OVEREXPOSURE.

Signs and Symptoms of Exposure: ACUTE (IF LEFT UNTREATED): HEADACHE, CHILLS, NAUSEA, WEAKNESS, VOMITING, LOSS OF APPETITE, UNCOORDINATED BODY MOVEMENTS, CONVULSIONS, STUPOR, AND COMA

CHRONIC OVEREXPOSURE
 IF LEFT UNTREATED: WEAKNESS, INSOMNIA, HYPERTENSION, SLIGHT IRRITATION TO SKIN AND EYES, METALLIC TASTE IN MOUTH, ANEMIA, CONSTIPATION, HEADACHE, MUSCLE AND JOINT PAINS, METAL FUME FEVER, ULCERATION OF THE NASAL SEPTUM, NEUROMUSCULAR DYSFUNCTION, PARALYSIS, AND ENCEPHALOPATHYL. LEAD EXPOSURE CAN POSE A RISK TO DEVELOPING FETUSES AND MAY IMPAIR THE REPRODUCTIVE SYSTEMS IN MEN AND WOMEN. DAMAGE TO KIDNEYS, RED BLOOD CELL FORMING, AND CENTRAL NERVOUS SYSTEM MAY OCCUR.

Other: IARC LISTS LEAD AS POSSIBLY CARCINOGENIC TO HUMANS AND LEAD COMPOUNDS AS PROBABLY CARCINOGENIC.
 NTP LISTS LEAD COMPOUNDS AS REASONABLY ANTICIPATED TO BE CARCINOGENIC TO HUMANS.

IV. FIRST AID MEASURES

Eyes: FLUSH WITH COPIOUS QUANTITIES OF WATER. GET IMMEDIATE MEDICAL ATTENTION.

Skin:

WASH THOROUGHLY WITH SOAP AND WATER.

- Ingestion:** GET IMMEDIATE MEDICAL ATTENTION.
- Inhalation:** REMOVE FROM EXPOSURE. GET IMMEDIATE MEDICAL ATTENTION IF EXPERIENCING EFFECTS OF OVEREXPOSURE.
- Other:** NOTE TO PHYSICIAN: LEAD AND ITS INORGANIC COMPOUNDS ARE NEUROTOXINS WHICH MAY PRODUCE PERIPHERAL NEUROPATHY. FOR AN OVERVIEW OF THE EFFECTS OF LEAD EXPOSURE, CONSULT OSHA APPENDIX A OF OCCUPATIONAL EXPOSURE TO LEAD (29CFR1910.1025).

V. FIRE FIGHTING MEASURES

- Flash Point:** N/A
- Test Method:** N/A
- Lower Flammability Limit:** N/A
- Upper Flammability Limit:** N/A
- Extinguishing Agents:** DRY CHEMICAL OR CARBON DIOXIDE SHOULD BE USED ON SURROUNDING FIRE. DO NOT USE WATER ON FIRES WHERE MOLTEN METAL IS PRESENT.
- Unusual Fire or Explosion Hazards:** MOLTEN METALS PRODUCE FUMES, VAPOR AND/OR DUST THAT MAY BE TOXIC AND/OR RESPIRATORY IRRITANTS. THE PRODUCT, OR IT'S DUST, CAN REACT VIGOROUSLY WITH STRONG OXIDIZING AGENTS.
- Fire Fighting Procedures:** USE FULL BODY PROTECTIVE CLOTHING AND FULL FACEPIECE, SELF-CONTAINED BREATHING APPARATUS OPERATED IN A POSITIVE-PRESSURE MODE.

VI. ACCIDENTAL RELEASE MEASURES

- Containment/Cleanup:** DUST MATERIAL SHOULD BE VACUUMED, OR WET SWEEPED WHERE VACUUMING IS NOT FEASIBLE. PARTICULATE MATTER SHOULD BE STORED IN DRY CONTAINERS FOR LATER DISPOSAL. DO NOT USE COMPRESSED AIR OR DRY SWEEPING AS A MEANS OF CLEANING.

VII. HANDLING AND STORAGE

- Other:**
- PRECAUTIONARY STATEMENTS:
 THERE ARE TWO MAJOR MEANS OF HEAVY METAL ABSORPTION: :
 NAMELY, INHALATION AND INGESTION. :
 MOST INHALATION PROBLEMS CAN BE PREVENTED WITH ADEQUATE USE OF AFOREMENTIONED VENTILATION AND RESPIRATORY INFORMATION.
 ALWAYS EXERCISE NORMAL, GOOD PERSONAL HYGIENE PRIOR TO SMOKING OR EATING. SMOKING AND EATING SHOULD BE CONFINED TO NON-CONTAMINATED AREAS.
 WORK CLOTHES AND EQUIPMENT SHOULD REMAIN IN DESIGNATED LEAD CONTAMINATED AREAS, AND NEVER TAKEN OR LAUNDERED WITH PERSONAL CLOTHING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.
 :
 THIS PRODUCT IS INTENDED FOR INDUSTRIAL USE ONLY AND SHOULD BE ISOLATED FROM CHILDREN AND THEIR ENVIRONMENT. CAUTION MUST BE EXERCISED NOT TO EXPOSE ANYONE TO THE SMOKE FUMES AND DUST GENERATED FROM THE USE OF THIS PRODUCT. DO NOT SMOKE WHILE USING THIS PRODUCT.
 STORE IN DRY AREA WHERE ACCIDENTAL CONTACT WITH ACIDS IS NOT

POSSIBLE. AVOID SKIN CONTACT.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	FACE SHIELD OR VENTED GOGGLES SHOULD BE USED AROUND MOLTEN METAL.
Skin:	GLOVES SHOULD BE WORN WHEN HANDLING THE PRODUCT IS NECESSARY.
Respiratory:	AS SPECIFIED BY 29 CFR 1910.1025 SUBPART (F) OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARD FOR OCCUPATIONAL EXPOSURE TO LEAD. OTHER LOCAL AND STATE REGULATIONS MAY ALSO APPLY.
Engineering:	VENTILATION, AS DESCRIBED IN THE "INDUSTRIAL VENTILATION MANUAL" PRODUCED BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, SHALL BE PROVIDED IN AREAS WHERE EXPOSURES ARE ABOVE THE PERMISSIBLE EXPOSURE LIMITS (PEL)OR THRESHOLD LIMIT VALUES (TLV) SPECIFIED BY OSHA OR LOCAL, STATE AND FEDERAL REGULATIONS.
Other:	OTHER CLOTHING AND EQUIPMENT: COVERALLS, OR OTHER FULL BODY CLOTHING, SHALL BE WORN DURING PRODUCT USE AND PROPERLY LAUNDERED AFTER USE, WITH THE WASH WATER DSIPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. HARD HAT, SAFETY BOOTS AND OTHER SAFETY EQUIPMENT SHOULD BE WORN AS APPROPRIATE FOR THE INDUSTRIAL ENVIRONMENT. PERSONAL CLOTHING AND SHOES SHOULD BE PROTECTED FROM CONTAMINATION WITH THIS PRODUCT. FOR INDUSTRIAL AND COMMERCIAL USE, OR WHERE PRODUCT IS CONTINUALLY USED: ADHERE TO ALL PERSONAL PROTECTION EQUIPMENT PROCEDURES WHEN HANDLING, AND VENTILATION REQUIREMENTS WHEN HEAVY METAL EXPOSURES ARE ABOVE PERMISSIBLE EXPOSURE LIMITS OR THRESHOLD LIMIT VALUES.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	BLUISH-GRAY METAL
Boiling Point:	3164°F (APPROX) @760 MM HG
Solubility in Water:	NEGLIGIBLE
Specific Gravity:	11.3 (APPROX) (H ² O=1)
Vapor Pressure:	N/A
Vapor Density:	N/A
Volatile Content:	N/A

X. STABILITY AND REACTIVITY

Stability:	N/A
Hazardous Polymerization:	N/A
Hazardous Decomposition Products:	HIGH TEMPERATURES MAY PRODUCE HEAVY METAL FUMES, VAPOR AND/OR DUST.
Incompatible Products:	STRONG OXIDIZERS AND THIS PRODUCT MAY LIBERATE HYDROGEN GAS.

XI. TOXICOLOGICAL INFORMATION

XII. ECOLOGICAL INFORMATION

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: DISPOSE OF TOXIC SUBSTANCES AND HAZARDOUS WASTES IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

XIV. TRANSPORT INFORMATION

XV. REGULATORY INFORMATION

EPA Sara Title III Chemical Listings: THIS PRODUCT CONTAINS GREATER THAN 0.10% LEAD (CAS #7439-92-1) WHICH IS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA SECTION 313 OF TITLE III OF 1986 AND 40 CFR 372.

California: PROP 65 WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS AND/OR OTHER REPRODUCTIVE HARM.

XVI. OTHER INFORMATION

Other: BEFORE USING THIS PRODUCT BE FAMILIAR WITH THE INFORMATION CONTAINED IN THE FEDERAL STANDARD FOR OCCUPATIONAL EXPOSURE TO LEAD (29CFR1910.1025), PUBLISHED IN THE FEDERAL REGISTER ON TUESDAY, NOVEMBER 14, 1978, BY OSHA.

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.