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K5This Material Safety Data Sheet
complies with OSHA Hazard Communication
Standard 29CFR 1910.1200

AMES METAL PRODUCTS CO.

PRODUCT: LEAD (FABRICATIONS/FORMS)

CODE: 3001

NO: 253

COMMON NAME OR SYNONYMS: Corroding, Chemical, Acid, Common Desilverized, Tellurium, & High Purity Grade Lead in the following forms:
wire, ingot, pig, pipe, anodes, cast or extruded bar, sheet, brick, wool, cane, tape, and miscellaneous
extruded lines.

SECTION I

MANUFACTURERS NAME: 4323 South Western Boulevard
Chicago, Illinois 60609
Phone 312-523-3230
FAX 312-523-3854

INFORMATION PHONE: Toll Free/Outside IL
EMERGENCY PHONE: 1-800-255-6937 CHEMTREC: 800-424-9300
PREPARATION DATE: January 1989

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OTHER	WT. PERCENT
Lead	7439-92-1	0.05 mg/m3	0.15 mg/m3		99.9+

Additional Information: OSHA Action Level for Lead 0.03 mg/m3 (See 29CFR 1910.1025)

SECTION III - PHYSICAL DATA

APPEARANCE & ODOR (AT NORMAL CONDITIONS): Solid - Silver Metallic to Gray Metallic Metal - No Odor

SPECIFIC GRAVITY (H₂O = 1): 11.34

MELTING POINT (DEGREES C): 328

BOILING POINT (DEGREES C): 1744

SOLUBILITY IN WATER: Insoluble

EVAPORATION RATE (BUTYL ACETATE = 1): Not Applicable

VAPOR DENSITY (AIR = 1): Not Applicable

VAPOR PRESSURE (mmHg): Not Applicable

PH: Not Applicable

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT: Non-Flammable

FLAMMABLE LIMITS: Not Applicable

EXTINGUISHING MEDIA: No specific agents recommended

SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, use full protective clothing and NIOSH/MSHA approved self-contained breathing apparatus operated in a positive-pressure mode.

UNUSUAL FIRE & EXPLOSION HAZARDS: None

SECTION V - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Not Applicable

INCOMPATIBILITY: Strong Oxidizers, Hydrogen Peroxide, Active Metals - Sodium, Potassium. Powdered lead fused with ammonium nitrate may cause a violent reaction.

HAZARDOUS DECOMPOSITION PRODUCTS: At temperatures above the melting point lead oxide fumes may be evolved.

SECTION V - REAGENTS DATA (CONTINUED)

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HAZARDOUS POLYMERIZATION : Will not occur.

SECTION VI - HEALTH HAZARD DATA

EXPOSURE TO THE SOLID FORM OF THIS PRODUCT PRESENTS FEW HEALTH HAZARDS IN ITSELF. HOWEVER, NORMAL HANDLING OR PROCESSING MATERIAL MAY RESULT IN THE GENERATION OF LEAD DUSTS AND/OR FUMES.

ROUTES OF ENTRY : Inhalation of Dust/Fume & ingestion of dust.

SYMPTOMS & EFFECTS OF OVEREXPOSURE : Chronic (Prolonged) overexposure to lead can result in systemic lead poisoning with symptoms metallic taste, anemia, insomnia, weakness, constipation, abdominal pain, gastrointestinal disorders, joint and muscle pains, and muscular weakness, and may cause damage to the blood, nervous, kidneys, & reproductive systems. Damage may include reduced fertility in both men and women, damage to the fetus of exposed pregnant women, anemia, muscular weakness & kidney dysfunction.

Acute (Severe short-term) overexposure to lead may lead to central nervous system disorders characterized by drowsiness, seizures, coma & death. It should be recognized that exposures of this magnitude in an industrial environment are extremely unlikely.

MEDICAL CONDITIONS POSSIBLY

AGGRAVATED BY EXPOSURE : Diseases of the blood and blood forming organs, kidneys, nervous & possible reproductive system

CARCINOGENICITY : Not listed as a carcinogen by NTP, IARC, OSHA

EMERGENCY & FIRST AID PROCEDURES : SKIN : Normal hygiene procedures - wash with soap and water.

EYES : Flush well with running water to remove particulate. If irritation persists seek medical attention.

INHALATION : Remove from exposure. Get medical attention.

INGESTION : Give water; induce vomiting in a conscious individual; get medical attention.

SECTION VII - PROTECTION MEASURES

RESPIRATORY PROTECTION : Respiratory protection is required where airborne exposures exceed OSHA/ACGIH permissible air concentrations. Respirator selection shall be made in accordance with the Occupational Exposure Standard for lead, 29 CFR 1910.1025.

VENTILATION : Ventilation, as described in "Industrial Ventilation, A Manual of Recommended Practice", by the American Conference of Governmental Industrial Hygienists, is recommended to maintain exposure levels below the permissible exposure limits (PEL's) or threshold limit values (TLV's) specified by OSHA or other federal or state regulations.

PROTECTIVE GLOVES : Recommended for prolonged contact/heat. Required above the Lead PEL.

EYE PROTECTION : Safety glasses or goggles are recommended where the possibility exists of getting dust particles in the eyes. Safety glasses or goggles with faceshield are recommended around molten metal.

OTHER PROTECTIVE EQUIPMENT : Full protective clothing and shoes are required for employee exposure above the Lead PEL. Other safety equipment should be worn as appropriate for the work environment. Keep work clothing separate from street clothes.

WORK/HYGIENIC PRACTICES : Do not permit eating, drinking, or the use of cosmetics or tobacco products while handling or processing material or in lead work areas. Practice good personal hygiene procedures. Wash hands and face thoroughly before eating, drinking, applying cosmetics or using tobacco products. Full protective clothing is to be worn by workers exposed to concentrations of Lead Dust/Fume above the PEL, and showering is required before changing into street clothes. Keep work clothing separate from street clothes. Work clothes and equipment should remain in designated lead contaminated areas and never taken home or laundered with personal clothes. Avoid inhalation and ingestion of product, and activities which generate dust or fumes. Keep melting temperatures as low as possible to minimize the generation of fumes.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING & USE

PRECAUTIONS TO BE TAKEN

HANDLING & STORAGE : Practice good housekeeping procedures to prevent dust accumulations. Keep material dry. Avoid storage of incompatible materials (See Section V). Keep product away from children & their environment, feed products and food products.

OTHER PRECAUTIONS : Special attention is drawn to the requirements of the OSHA Lead Standard (1910.1025) and Respirator Standard (1910.134) should airborne exposures exceed the OSHA Action Level (AL) or PEL.

SECTION IX - SPILL OR LEAK PROCEDURES

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SPILL OR LEAK PROCEDURES : 1) Material in Dust Form - minimize exposure. Clean up using dustless methods (i.e. vacuum). Do not use compressed air. 2) Place in closed labeled containers for recycling or disposal. 3) Keep out of waterways. Note: Cleanup personnel should wear protective clothing and respiratory protection where dust/fume exposure exists.

OTHER PROCEDURES : We recommend that the purchaser establish a spill prevention, control and counter measure plan. This plan should include procedures for proper storage as well as clean-up of spills or leaks. The procedures should conform to safe practices and provide for proper recovery and/or disposal. Depending on the quantity spilled notification to the National Response Center (800-424-8802) may be required in case of hazardous substances. (See EPA and DOT regulations; also various state and local regulations.)

WASTE DISPOSAL METHODS : May have value on a recycled basis. If disposed of, dispose of in a permitted disposal site in accordance with all federal, state and local disposal or discharge regulations.

SECTION X - SARA TITLE III INFORMATION

THIS PRODUCT/MIXTURE CONTAINS THE FOLLOWING TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372. THE PERCENT BY WEIGHT OF EACH TOXIC CHEMICAL AND ITS ASSOCIATED CHEMICAL ABSTRACT SYSTEM (CAS) NUMBER ARE TO BE FOUND IN SECTION II OF THIS MATERIAL SAFETY DATA SHEET.

CHEMICAL NAME	EHS RQ (LBS) (*1)	EHS TPQ (LBS) (*2)	SEC. 313 (*3)	313 CATEGORY (*4)	311/312 CATEGORIES (*5)
Lead	Not Applicable	Not Applicable	Yes	Lead	H-1, H-2

FOOTNOTES

- *1 = REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SECTION 302.
- *2 = THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE, SECTION 302.
- *3 = TOXIC CHEMICAL, SECTION 313
- *4 = CATEGORY AS REQUIRED BY SECTION 313 (40 CFR 372.42). MUST BE USED ON TOXIC RELEASE FORM.
- *5 = HAZARD CATEGORY FOR SARA SECTION 311/312:
 - HEALTH H-1 = IMMEDIATE (ACUTE) HEALTH HAZARD
 - H-2 = DELAYED (CHRONIC) HEALTH HAZARD
 - PHYSICAL P-3 = FIRE HAZARD
 - P-4 = SUDDEN RELEASE OF PRESSURE HAZARD
 - P-5 = REACTIVE HAZARD

SECTION XI - CERCLA INFORMATION

THIS PRODUCT/MIXTURE CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE RELEASE REPORTING REQUIREMENTS OF SECTION 302.

CHEMICAL NAME	RQ (LBS) (*1)	CERCLA STATUTORY RQ
Lead	1.0	CERCLA STATUTORY RQ

FOOTNOTES

- *1 = REPORTABLE QUANTITY (RQ) UNDER CERCLA SECTION 302. SPILLS TO THE ENVIRONMENT EXCEEDING THE REPORTABLE QUANTITY IN ANY 24 HOUR PERIOD MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER (800-424-8802). NO REPORTING OF RELEASES OF THE HAZARDOUS SUBSTANCE(S) IS REQUIRED IF THE DIAMETER OF THE PIECES OF THE SOLID METAL(S) RELEASED IS EQUAL TO OR EXCEEDS 100 MICROMETERS (0.004 INCHES).

SECTION XII - TRANSPORTATION INFORMATION (172.101)

DOT SHIPPING NAME : This product is not regulated by the DOT as shipped. This material is only regulated by the DOT if in a powder form with a particle size less than 100 micrometers. (0.0040 inches)

HAZARD CLASS : Not Applicable

SECTION XII - TRANSPORTATION INFORMATION (172.101) (CONTINUED)

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UN/ID NO. : Not Applicable
DOT LABEL(S) : Not Applicable

SECTION XIII - ADDITIONAL INFORMATION

OSHA Biological Limit for Blood Lead Level is-a 3 sample/6 month average of 50 mcg per 100g (or higher) of whole blood and/or two consecutive samples of 60 mcg per 100g (or higher). See OSHA Standard 29 CFR 1910.1025 for further information.

Lead and its compounds has tentatively been found to be a class B-2 Carcinogen by the USEPA Carcinogen Assessment Group. IARC li and its compounds as a teratogen.

The use of lead pipes or lead sheet in any private or public potable water supply system is prohibited by the Clean Water Act.

This Material Safety Data Sheet is offered solely for your information, consideration and investigation. AMES METAL PRODUCT provides no warranties, either express or implied, and assumes no responsibilities for the accuracy or completeness of the data in this document. The data in this Material Safety Data Sheet relates only to this product and does not relate to use in contact with any other material or in any process.

WARNING: THIS PRODUCT CONTAINS A CHEMICAL OR CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO:

- A) CAUSE CANCER
- OR
- B) CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

(22 Cal. Code 12601 (b) (5))