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METALICO

MATERIAL SAFETY DATA SHEET This Material Safety Data Sheet complies with the U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200

PRODUCT: ANTIMONIAL LEAD (FABRICATIONS/FORMS) CODE: 3002 COMMON NAME OR SYNONYMS: Antimonial Load Alloys and Tellurium Lead with Antimony Alloys in the following forms: wire, ingot, pig, pipe, anodes, cast or extruded bar, sheet, brick, rod, strip, tubing, ribbon, tape, flake, and miscellaneous extruded lines. NFPA/HMIS HAZARD CODES: FIRE: 0/0 REACTIVITY: 0/0 SPECIAL: NA HEALTH: 1/1 3 = Serious 0 = Minimal 1 = Slight 2 = Moderate 4 = Severe ***SECTION I*** MANUFACTURERS NAME: Metalico - Granite City, Inc. INFORMATION: Metalico - Granite City, Inc. 1200 16th Street Granite City, IL 62040 PREPARATION DATE: October 2001 618.451.4400 2. Metalico - EVANS, Inc. REVISIONS: This is a revised Material Safety Data Sheet. Revised information appears in 740 Lumbert Drive N.E. Atlanta, GA 30324 404.875.5636 the text line(s), as indicated by asterisk(s) (*) in the right margin. ***SECTION II - HAZARDOUS INGREDIENTS*** ACGIH US-NIOSH US OSHA US OSHA CAS NO. RTECS NO. 8-HR AL 8-HR PEL 8-HR TLV WT. PERCENT (1) INGREDIENT 65 - 99 0.03 mg/m3 0.05 mg/m3 0.05 mg/m3 7439-92-1 OF7525000 Lead 0.5 mg/m3 1 - 35 NE 0.5 mg/m3 7440-36-0 CC4025000 Antimony NOTE(S): (1) Product Formulation is to customer specification and appears on product packaging and/or packing slip. TLV = Threshold Limit Value PEL = Permissible Exposure Limit NE = None Established AL = Action Level ***SECTION III - PHYSICAL DATA*** Solid - silver metallic to gray metallic metal - no odor. APPEARANCE & ODOR (AT NORMAL CONDITIONS): 9.71 - 11.29 SPECIFIC GRAVITY (H20 = 1) Antimony - 630 : Alloy Specific Dependent - Constituents: Load - 328 MELTING POINT (DEGREES C) : Alloy Specific Dependent - Constituents: Lead - 1744 Antimony - 1380 BOILING POINT (DEGREES C) SOLUBILITY IN WATER : Insotuble *** SECTION IV - FIRE & EXPLOSION HAZARD_DATA*** Non-Flammable FLASH POINT Not Applicable FLAMMABLE LIMITS No specific agents recommended EXTINGUISHING MEDIA If involved in fire, use full protective clothing and NIOSH/MSHA approved solf-contained SPECIAL FIRE FIGHTING PROCEDURES: breathing apparatus operated in a positive-pressure mode. The solid metal form is not a fire hazard. However, dust generated from processing UNUSUAL FIRE & EXPLOSION HAZARDS: operations may present a moderate fire or explosion hazard. ***SECTION V - REACTIVITY DATA*** STABILITY Stable CONDITIONS TO AVOID Not Applicable : Strong Oxidizers, Hydrogen Peroxide, Active Metals - Sodium, Potassium. Powdered lead INCOMPATIBILITY fused with ammonium nitrate may cause a violent reaction. Strong acids, bases, nascent hydrogen, reducing agents, chlorine, fluorine & bromine. NEVER mix molten metal with water - it will explode. NEVER put product, by-products, dust or product waste into galvanized or aluminum containers. HAZARDOUS DECOMPOSITION PRODUCTS: At temperatures above the melting point metal oxide fumes may be evolved. Under reducing conditions, such as any strong acid or base plus an active metal, or in the presence of nascent hydrogen, highly toxic stibine gas (TLV = 0.10 ppm) may be evolved. : Will not occur. HAZARDOUS POLYMERIZATION

SECTION VI - HEALTH HAZARD DATA

NOTE: EXPOSURE TO THE SOLID FORM OF THIS PRODUCT PRESENTS FEW HEALTH HAZARDS IN ITSELF. HOWEVER, NORMAL HANDLING OR PROCESSING OF THIS MATERIAL MAY RESULT IN EXPOSURE TO PRODUCT COMPOUNDS AND/OR DECOMPOSITION PRODUCTS, WHICH MAY PRESENT A POTENTIAL HEALTH HAZARD.

: Dust/fume inhalation, dust ingestion.

SYMPTOMS & EFFECT OF OVEREXPOSURE: Chronic (prolonged) overexposure to lead can result in systemic lead poisoning with symptoms of metallic taste, anemia, insomnia, weakness, constipation, abdominal pain, gastrointestinal disorders, joint and muscle pains, and muscular weakness, and may cause damage to the blood-forming, nervous, kidney, & 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. Chronic overexposure to antimony can lead to liver and kidney damage and central nervous system disorders. Antimony can cause eye and skin irritation, and dermatitis.

> 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. Acute overexposure to antimony can cause upper respiratory tract irritation and systemic antimony poisoning with symptoms including abdominal cramps, nausea, dizziness, dry throat and various nervous complaints, such as sleeplessness, irritability and muscular pains. Repeated skin contact with antimony may result in dermatitis, and eye contact may cause severe eye irritation. Pre-existing conditions of the lungs, diseases of the blood and blood-forming organs, kidneys, nervous and possibly reproductive systems.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE CARCINOGENICITY

Not listed as a carcinogen by NTP, OSHA, ACGIH; IARC classifies "lead and its compounds"

as a Group 28 carcinogen (possibly carcinogenic to humans).

ADDITIONAL INFORMATION

Pre-employment medical evaluations are recommended for large users of this product (required at contaminant exposure levels exceeding the Lead AL - See U.S. OSHA Lead Standard, 29 CFR 1910.1025). Attention should be directed to skin, eyes, respiratory tract, blood, kidneys, pulmonary function and neurological health.

Periodic medical examinations should be repeated on an annual basis for those employees exposed to potentially hazardous levels of this product. Please consult the U.S. OSHA Lead Standard (29 CFR 1910.1025) for specific guidance; periodic medical examinations are required under certain circumstances.

U.S. 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 (2) consecutive samples of 60 mcg per 100g (or higher). See U.S. OSHA Standard 29 CFR 1910.1025 for further information.

Lead and its compounds has tentatively been classed by the USEPA Carcinogen Assessment Group as a Group B2 Carcinogen (Probable human carcinogen - a combination of sufficient evidence in animals and inadequate data for humans). IARC lists lead and its compounds as a teratogen.

Some animal studies indicate that inhalation of antimony trioxide may pose an increased risk of lung cancer. ACGIH identifies antimony trioxide as a Class A2 carcinogen (suspected human carcinogen). IARC classifies antimony trioxide as a Group 2B carcinogen (possibly carcinogenic to humans).

EMERGENCY & FIRST AID PROCEDURES:

: Normal hygiene and first aid procedures - wash with soap and water. If SKIN irritation or rash develops or persists get medical attention.

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

ACUTE Remove from exposure. Obtain immediate medical attention. If breathing has INHALATION: stopped, initiate artificial resuscitation.

Give water; induce vomiting only in a conscious non-convulsing individual; INGESTION : obtain immediate medical attention.

CALIFORNIA NOTIFICATION:

: This product contains a chemical known to the State of California to cause WARNING cancer and birth defects (or other reproductive harm).

: This informational warning must be transferred with the product, to all NOTICE

downstream users of this product.

SECTION X - UNITED STATES SARA TITLE III INFORMATION

THIS PRODUCT/MIXTURE CONTAINS THE FOLLOWING TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE 111 OF THE U.S. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) 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)	EH TPQ (LBS)	SEC. 313 (*3)	313 CATEGORY (*4)	311/312 CATEGORIES (*5)
	Not Applicable Not Applicable	Not Applicable Not Applicable	Yes	Lead Antimony	H-1, H-2 H-1, H-2

- *1 = REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SECTION 302.
- "2 = THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE, SECTION 302.

*3 = TOXIC CHEMICAL LIST, SECTION 313

*4 = CHEMICAL CATEGORY AS REQUIRED BY SECTION 313 (40 CFR 372.42). SUBJECT TO ANNUAL RELEASE REPORTING REQUIREMENTS.

*5 = HAZARD CATEGORY FOR SARA SECTION 311/312 REPORTING:

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 - UNITED STATES CERCLA SECTION 103 INFORMATION

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

*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 U.S. 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 MICROHETERS (0.004 INCHES).

SECTION XII - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME : Non-regulated material TECHNICAL NAME : NA : NA UN NO. : NA

PACKING GROUP : NA EMERGENCY RESPONSE GUIDE NUMBER : NA

THER : NA

SECTION XIII - ADDITIONAL INFORMATION

UNITED STATES - CLEAN WATER ACT: The use of lead containing pipes or lead containing sheet in making joints or fittings in any private or public potable water supply system is prohibited by the Clean Water Act.

UNITED STATES - STATE HAZARDOUS SUBSTANCE LISTS: Lead and antimony appear on the state hazardous substance lists of MA and NJ.

CANADA - HPA WHMIS LIST: Lead and antimony appear on the Canadian HPA WHMIS Chemical List.

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SECTION VII - PROTECTION MEASURES

RESPIRATORY PROTECTION : Respiratory protection is required where airborne exposures exceed U.S. OSHA/ACGIH permissible air concentrations. Respirator selection shall be made in accordance with the U.S. Respiratory Protection Standard 29 CFR 1910.134.

VENTILATION

: Good general dilution ventilation, or ventilation, as described in "Industrial Ventilation, A Manual of Recommended Practice", by the American Conference of Governmental Industrial Hygienists, is recommended in order to maintain exposure levels below the permissible exposure limits (PEL's)

PROTECTIVE GLOVES EYE PROTECTION

or threshold limit values (TLV's) specified by U.S. OSHA or other local or state regulations. : Recommended for prolonged contact/heat. Required above the Lead PEL.

: 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 and where excessive metal dust exposure exists.

OTHER PROTECTIVE EGUIPMENT

: 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 product work areas. Practice good personal hygicne procedures. Wash hands and face thoroughly before cating, 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 and antimony contaminated areas and never taken home or laundered with personal clothing. Avoid inhalation and ingestion of product, and activities which generate dust or fume. Keep molting/soldering temperatures as low as possible to minimize the generation of fumes.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING & USE

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

: Practice good housekeeping procedures to prevent dust accumulations. Keep material dry. Avoid storage near incompatible materials (See Section V). Keep product away from children and their environment, feed products, food products and domestic animals. Do NOT put product, by-products, dust or product waste into galvanized or aluminum containers.

OTHER PRECAUTIONS

Special attention is drawn to the requirements of the U.S. OSHA Lead Standard (29 CFR 1910.1025) and Respirator Standard (29 CFR 1910.134) should birborne exposures exceed the U.S. OSHA Action Level (AL) or PEL. Inadvertent contaminants to product such as moisture, ice, snow, grease or oil can cause an explosion when charged to a molten metal both or melting furnace. (Preheating metal will remove moisture from product).

SECTION IX - SPILL OR LEAK PROCEDURES

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

OTHER PROCEDURES

: For large product users or involving large product quantities, we recommend that the purchaser establish a spill provention, 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 U.S. National Response Center (800-424-8802) may be required in case of hazardous substances. (See USEPA and USDOT 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. Under the U.S. Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the Product to determine, at the time of disposal, whether the Product falls under the RCRA as a hazardous waste. This is because Product uses, transformations, synthesis, mixtures, etc. may cause the resulting endproduct to be classified as hazardous.