

AMES METAL PRODUCTS CO -- TIN/LEAD SOLDER ALLOY

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MSDS Safety Information  
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FSC: 3439  
MSDS Date: 03/01/1993  
MSDS Num: BVCHK  
LIIN: 00N048521  
Product ID: TIN/LEAD SOLDER ALLOY  
MFN: 01  
Responsible Party  
Cage: 25934  
Name: AMES METAL PRODUCTS CO  
Address: 4323 SOUTH WESTERN BLVD  
City: CHICAGO IL 60609  
Info Phone Number: 312-523-3230  
Emergency Phone Number: 800-255-6937;800-424-9300 (CHEMTREC)  
Published: Y

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Contractor Summary  
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Cage: 25934  
Name: AMES METAL PRODUCTS CO  
Address: 4323 S WESTERN BLVD  
City: CHICAGO IL 60609-3012  
Phone: 312-523-3230 / 312-523-3854

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Ingredients  
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Name: ING 12:SPILLS/LEAKS. PROCS SHOULD CONFORM TO SAFE PRACTS & PROVIDE FOR PROPER RECOVERY &/OR DISP. RQ:LEAD:1 LB;

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Name: ING 13:ANTIMONY:5000 LBS. SPILLS TO ENVIRON EXCEEDING RQ IN ANY 24 HR PERIOD MUST BE REPORTED TO THE NRC (800-424-8802).

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Name: OTHER PREC:TOBACCO PRODS WHILE HNDLG/PROCESSING MATL/IN PROD WORK AREAS.  
PROT PROD FROM INADVERTANT CONTAMS SUCH

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Name: ING 15:AS MOISTURE, ICE, SNOW, GREASE/OIL. CAN CAUSE EXPLO WHEN CHARGED TO MOLTEN METAL BATH & MELTING FURNACE

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Name: ING 16:(PREHEATING METAL WILL REMOVE MOISTURE FROM PROD). IN INDUS/COMMERCIAL PROCESSING OPERATIONS, PRE-

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Name: ING 17:EMPLOYMENT MED EVALS ARE REC FOR LG USERS OF THIS PROD. ATTN SHOULD BE DIRECTED TO SKIN, EYES, RESP

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Name: ING 18:TRACT, BLOOD, KIDNEYS, PULM FUNC & NEUROLOGICAL HLTH. PERIODIC MED EXAMS SHOULD BE RPTD ON ANNUAL BASIS

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Name: ING 19:FOR THOSE EMPLOYEES EXPOS TO POTNTLY HAZ LEVELS OF THIS PROD; ARE  
REQD UNDER CERTAIN CIRCUMSTANCES.  
Other REC Limits: N/K (FP N)

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Name: ING 20:CONSULT 29 CFR 1910.1025.

Other REC Limits: N/K (FP N)

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Name: OTHER PROT EQUIP:STREET CLOTHES. KEEP WORK CLTHG SEPARATE FROM STREET CLOTHES. WORK CLOTHES & EQUIP SHOULD

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Name: ING 22:REMAIN IN DESIGNATED AREAS & NEVER TAKEN HOME/LAUNDERED W/PERSONAL CLTHG. OTHER SFTY EQUIP SHOULD BE WORN

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Name: ING 23:AS APPROPRIATE FOR WORK ENVIRONMENT.

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Name: CARCIN COMMENTS: ANTIMONY TRIOXIDE MAY FORM AS A RESULT OF HEATING (FP N).

Other REC Limits: NONE RECOMMENDED

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Cas: 7439-92-1  
RTECS #: OF7525000  
Name: LEAD. %:1.5-98.5. BP:3171F,1744C. MP:622F,328C.  
% Wt: SEE ING  
OSHA PEL: 0.05 MG/M3  
ACGIH TLV: 0.15 MG/M3 DUST  
EPA Rpt Qty: 1 LB  
DOT Rpt Qty: 1 LB

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Cas: 7440-31-5  
RTECS #: XP7320000  
Name: TIN. %:1.5-98.5. BP:4100F,2260C. MP:450F,232C.  
% Wt: SEE ING  
OSHA PEL: 2 MG/M3  
ACGIH TLV: 2 MG/M3

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Cas: 7440-36-0  
RTECS #: CC4025000  
Name: ANTIMONY (SARA III)  
OSHA PEL: 0.5 MG/M3 (SB)  
ACGIH TLV: 0.5 MG/M3 (SB)  
EPA Rpt Qty: 5000 LBS  
DOT Rpt Qty: 5000 LBS

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Name: SUPDAT:NASCENT HYDROGEN, REDUCING AGENTS, CHLORINE, FLUORINE & BROMINE. NEVER PUT PROD, BY-PRODS, DUST/PROD WASTE

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Name: ING 4:INTO GALVANIZED OR ALUMINUM CONTAINERS.

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Name: EFTS OF OVEREXP:MUSCULAR WEAK & MAY CAUSE DMG TO BLOOD-FORMING, NERV, KIDNEYS & REPRO SYS. DMG MAY INCL REDUCED

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Name: ING 6:FERTILITY IN BOTH MEN & WOMEN, DMG TO FETUS OF EXPOS PREGNANT WOMEN, & KIDNEY DYSFUNC. TIN CAN RSLT IN

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Name: ING 7:BENIGN PNEUMOCONIOSIS(STANNOIS). PRDCES PROGRESSIVE X-RAY CHANGES OF LUNGS, BUT NO FIBROSIS. ANTIMONY CAN

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Name: ING 8:CAUSE EYE & SKIN IRRIT & DERM. NOTE:LEAD APPEARS ON NAVY LIST OF OCCUP CHEM REPRO HAZS. SEEK CONSULTATION

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Name: ING 9:FROM APPROPRIATE HEALTH PROFESSIONALS CONCERNING LATEST HAZARD LIST

INFO & SAFE HANDLING & EXPOSURE INFO (FP N).

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Name: SPILL PROC:WHERE DUST/FUME EXPOS EXISTS. FOR LG PROD USERS/INVOLVING LG  
PROD QTYS, WE REC THAT PURCHASER  
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Name: ING 11:ESTABLISH SPILL PVNT, CONTROL & COUNTER MEASURE PLAN. THIS  
SHOULD INCL PROPER STOR AS WELL AS CLEAN-UP OF  
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Health Hazards Data  
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LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Route Of Entry Inds - Inhalation: YES

Skin: NO

Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: ACUTE:OVEREXP TO LEAD MAY LEAD TO CNS DISORDERS, DROW,  
SEIZURES, COMA & DEATH. EXPOS OF THIS MAGNITUDE IN INDUS ENVIRON ARE  
EXTREMELY UNLIKELY. OVEREXP TO TIN CAN CAUSE IRRIT OF EYES, SKIN, MUC MEMBS  
& RESP SYS. OVEREXP TO ANTIMONY CAN CAUS E UPPER RESP TRACT IRRIT &  
SYSTEMIC POIS W/SYMP S OF ABDOM (EFTS OF OVEREXP)

Explanation Of Carcinogenicity: ANTIMONY TRIOXIDE:IARC MNGRPHS ON EVAL OF  
CARCIN RISK OF CHEMS TO MAN, VOL 47, PG 291, 1989:GRP 2B. ANIMAL: (SUPDAT)

Signs And Symptions Of Overexposure: HLTH HAZ:CRAMPS, NAUS, DIZZ, DRY THROAT  
& NERV COMPLAINTS, SUCH AS SLEEPLESSNESS, IRRITABILITY & MUSCULAR  
PAINS. RPTD SKIN CONT W/ANTIMONY MAY RSLT IN DERM. EYE CONT MAY CAUSE SEV  
IRRIT. CHRONIC:LEAD CAN RSLT IN SYSTEMIC POIS W/SYMP S OF MET ALLIC TASTE,  
ANEMIA, INSOM, CONSTIP, GI DISORDERS, JOINT & MUSCLE PAINS &

Medical Cond Aggravated By Exposure: PRE-EXISTING CONDITIONS OF LUNGS,  
DISEASES OF THE BLOOD & BLOOD FORMING ORGANS, KIDNEYS, LIVER, NERVOUS &  
POSSIBLY REPRODUCTIVE SYSTEMS.

First Aid: SKIN:WASH W/SOAP & WATER. IF IRRIT/RASH DEVELOPS/PERSISTS GET  
MED ATTN. EYES:FLUSH WELL W/RUNNING WATER FOR AT LST 15 MINS TO REMOVE  
PARTICULATE. IF IRRIT PERSISTS GET MED ATTN. INHAL:REMOVE FROM EXPOS.  
OBTAIN IMMED MED ATTN. IF BRTHG HAS S TOPPED, INITIATE ARTF RESP.  
INGEST:GIVE WATER;INDUCE VOMIT ONLY IN CONSCIOUS NON-CONVULSING INDIVIDUAL;  
OBTAIN IMMED MED ATTN.  
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Handling and Disposal  
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Spill Release Procedures: DUST FORM-MIN EXPOS. CLEAN UP USING DUSTLESS  
METHS(E.G.HEPA VACUUM). DO NOT USE COMPRESSED AIR. PLACE IN CLSD LBLD  
CNTNRS FOR RECYCLING/DISP. KEEP OUT OF WATERWAYS. NOTE:CLEANUP PERSONAL  
SHOULD WEAR PROT CLTHG & NIOSH/MSHA APPRVD RESP PROT

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: MAY HAVE VALUE ON RECYCLED BASIS. DISP OF IN  
PERMITTED DISP SITE I/A/W ALL FED, STATE & LOC DISP/DISCHARGE REGS. UNDER  
RCRA, IT IS RESPONSIBILITY OF USER OF PROD TO DETERM, AT TIME OF DISP,  
WHETHER PROD FALLS UNDER RCRA HAZ WASTE.

Handling And Storage Precautions: PRACTICE GOOD HOUSEKEEPING PROCS TO PVNT  
DUST ACCUMS. KEEP MATL DRY. AVOID INHAL & INGEST OF PROD & ACTIVITIES  
WHICH GENERATE DUST/FUME.

Other Precautions: AVOID STOR NEAR INCOMPAT MATLS. KEEP PROD AWAY  
FROMCHILDREN & THEIR ENVIRON, FEED/FOOD PRODS & DOMESTIC ANIMALS.  
KEEPMELTING/SOLDERING TEMPS AS LOW AS POSS TO MIN GENERATION OF FUME. DO  
NOTPERMIT EATING/DRINKING/USE OF COSMETICS/

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Fire and Explosion Hazard Information  
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Flash Point Text: NON-FLAMMABLE

Extinguishing Media: MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).

Fire Fighting Procedures: USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N).

Unusual Fire/Explosion Hazard: SOLID METAL IS NOT FIRE HAZ, BUT DUST FROM PROCESSING OPERATIONS MAY PRESENT MOD FIRE/EXPLO HAZ. NEVER MIX MOLTEN METAL W/WATER-IT WILL EXPLODE.

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Control Measures  
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Respiratory Protection: NIOSH/MSHA APPRVD RESP PROT IS REQD WHERE AIRBORNE EXPOS EXCEED U.S. OSHA/ACGIH PERMISSIBLE AIR CONC. RESP SELECTION SHALL BE MADE I/A/W U.S. OCCUP EXPOS STD FOR LEAD, 29 CFR 1910.1025 & RESP PROT STD 29 CFR 1910.34.

Ventilation: GOOD GEN DILUTION VENT/VENT AS DESCRIBED IN "INDUS VENT, MANUAL OF REC PRACTICE", BY ACGIH, IS REC IN ORDER TO (SUPDAT)

Protective Gloves: IMPERVIOUS GLOVES (FP N).

Eye Protection: ANSI APPROVED SAFETY GOGGS & FACESHIELD.

Other Protective Equipment: FULL PROT CLTHG & SHOES ARE REQD FOR EMPLOYEE EXPOS ABOVE LEAD PEL, & SHOWERING IS REQD BEFORE CHANGING INTO

Work Hygienic Practices: PRACTICE GOOD PERSONAL HYGIENE PROCS. WASH HANDS & FACE THORO BEFORE EATING, DRINKING, APPLYING COSMETICS/USING (SUPDAT)

Supplemental Safety and Health: SPEC GRAV:5.83-11.27(H\*20=1). EXPLAN OF CARCIN:NEOPLASTIGENIC, CVS & LUNG EFTS. VENT:MAINTAIN EXPOS LEVELS BELOW PEL'S/TLV'S. HYGIENE PRACT:TOBACCO PRODS. HAZ DECOMP PROD:BASE PLUS ACTIVE METAL/IN PRESENCE OF NASCENT HYDROGEN, HIGHLY TOX ST IBINE GAS MAY BE EVOLVED. MATLS TO AVOID:NITRATE, STRONG ACIDS, BASES,

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Physical/Chemical Properties  
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B.P. Text: SEE INGS

M.P/F.P Text: SEE INGS

Spec Gravity: SUPP DATA

Solubility in Water: INSOLUBLE

Appearance and Odor: SOLID - SILVER METALLIC TO GRAY METALLIC METAL; NO ODOR.

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Reactivity Data  
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Stability Indicator: YES

Materials To Avoid: STRONG OXIDIZERS, HYDROGEN PEROXIDE, TURPENTINE, ACTIVE METALS-SODIUM, POTASSIUM, PWDRD LEAD FUSED W/AMMONIUM (SUPDAT)

Hazardous Decomposition Products: AT TEMPS ABOVE MELTING POINT METAL OXIDE FUMES MAY BE EVOLVED. UNDER REDUCING CNDTNS, SUCH AS ANY STRONG ACID/ (SUPDAT)

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NOT RELEVANT

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Toxicological Information  
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Ecological Information  
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MSDS Transport Information  
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Regulatory Information  
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Other Information  
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HAZCOM Label  
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Product ID: TIN/LEAD SOLDER ALLOY  
Cage: 25934  
Company Name: AMES METAL PRODUCTS CO  
Street: 4323 S WESTERN BLVD  
City: CHICAGO IL  
Zipcode: 60609-3012  
Health Emergency Phone: 800-255-6937;800-424-9300(CHEMTREC)  
Label Required IND: Y  
Date Of Label Review: 02/16/1994  
Status Code: C  
Label Date: 02/16/1994  
Origination Code: G  
Chronic Hazard IND: Y  
Eye Protection IND: YES  
Skin Protection IND: YES  
Signal Word: WARNING  
Respiratory Protection IND: YES  
Health Hazard: Moderate  
Contact Hazard: Slight  
Fire Hazard: None  
Reactivity Hazard: None  
Hazard And Precautions: ACUTE:SOLID FORM PRESENTS NOT MUCH HEALTH HAZARD, BUT SEVERE OVEREXPOSURE TO DUST OR FUMES CAN CAUSE CENTRAL NERVOUS SYSTEM DISORDERS (DROWSINESS, COMA, DEATH), EYE, SKIN, MUCOUS MEMBRANE OR RESPIRATORY IRRITATION, CRAMPS, NAUSEA, DIZZINESS , MUSCLE WEAKNESS OR PAINS.CHRONIC: ANTIMONY TRIOXIDE IS CONSID A LUNG CARCIN OF LAB ANIMS (WHICH MAY RSLT WHEN MATL IS HEATED (FP N). LEAD APPEARS ON NAVY LIST OF OCCUPATIONAL CHEMICAL REPRODUCTIVE HAZARDS (FP N). CAN CAUSE ANEMIA, GASTRO INTESTINAL DISORDERS, INSOMNIA, DAMAGE TO KIDNEYS & LIVER & CENTRAL NERVOUS SYSTEM, BLOOD FORMING, NERVOUS OR REPRODUCTIVE SYSTEMS, BENIGN PNEUMOCONIOSIS (STANNOIS).

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