

FRY TECHNOLOGY

-- TIN/LEAD/ANTIMONY/SILVER/BISMUTH ALLOYS

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MSDS Safety Information  
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FSC: 3439  
NIIN: 00-269-9610  
MSDS Date: 03/31/1997  
MSDS Num: CKWMM  
Product ID: TIN/LEAD/ANTIMONY/SILVER/BISMUTH ALLOYS  
MFN: 01  
Responsible Party  
Cage: U0132  
Name: FRY TECHNOLOGY  
Address: 4100 SIXTH AVENUE  
City: ALTOONA PA 16602  
Info Phone Number: 814-946-1611  
Emergency Phone Number: 814-946-1611  
Resp. Party Other MSDS No.: MSDS3.3  
Preparer's Name: JOHN LAUGHLIN/JACK WAGNER  
Chemtrec IND/Phone: (800)424-9300  
Review Ind: Y  
Published: Y

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Contractor Summary  
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Cage: U0132  
Name: FRY TECHNOLOGY  
Address: 4100 SIXTH AVENUE  
City: ALTOONA PA 16602  
Phone: 814-946-1611

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Item Description Information  
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Item Manager: S9G  
Item Name: SOLDER, TIN ALLOY  
Specification Number: QQ-S-571  
Unit of Issue: SL  
Quantitative Expression: 00000000016OZ  
UI Container Qty: ONE  
Type of Container: SPOOL

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Ingredients  
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Cas: 7439-92-1  
RTECS #: OF7525000  
Name: LEAD  
OSHA PEL: 0.05 MG/CUM  
ACGIH TLV: 0.05 MG/CUM  
EPA Rpt Qty: 1 LB  
DOT Rpt Qty: 1 LB

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Cas: 7440-31-5  
RTECS #: XP7320000  
Name: TIN  
OSHA PEL: 2.0 MG/CUM  
ACGIH TLV: 2 MG/CUM  
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Cas: 7440-22-4  
RTECS #: VW3500000  
Name: SILVER  
OSHA PEL: 0.01 MG/CUM  
ACGIH TLV: 0.1 MG/CUM  
EPA Rpt Qty: 1 LB  
DOT Rpt Qty: 1 LB

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Cas: 7440-69-9  
RTECS #: EB2600000  
Name: BISMUTH  
OSHA PEL: NE  
ACGIH TLV: NE

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Cas: 7440-36-0  
RTECS #: CC4025000  
Name: ANTIMONY  
OSHA PEL: 0.5 MG/CUM  
ACGIH TLV: 0.5 MG/CUM  
EPA Rpt Qty: 5000 LBS  
DOT Rpt Qty: 5000 LBS

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Cas: 7440-74-6  
RTECS #: NL1050000  
Name: INDIUM  
OSHA PEL: 0.1 MG/CUM  
ACGIH TLV: 0.1 MG/CUM

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Health Hazards Data  
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IARC: YES

Effects of Exposure: EYE: DUST OR FUME WILL BE AN IRRITANT. SKIN CONTACT: NOT A ROUTE OF ENTRY INTO THE BODY. SKIN ABSORPTION: NOT A ROUTE OF ENTRY INTO THE BODY. INHALATION: INHALATION OF DUST AND FUMES MUST BE AVOIDED. IRRITATION OF NOSE AND BRONCHIAL TRACTS MAY OCCUR AS WELL AS EFFECTS DUE TO ABSORPTION OF LEAD, ETC. IN THE BLOOD STREAM. INGESTION: INGESTION OF DUST OR FUME MUST BE AVOIDED. LEAD IS TOXIC AND CUMULATIVE, AFFECTING THE KIDNEYS, REPRODUCTIVE SYSTEM AND NERVOUS SYSTEM.

Explanation Of Carcinogenicity: IARC CLASSIFIES LEAD & SOME LEAD COMPOUNDS A GROUP 2B CARCINOGENS (POSSIBLY CARCINOGENIC TO HUMANS). THIS CLASSIFICATION BASED PRIMARILY ON CARCINOGENICITY OF CERTAIN SOLUBLE LEAD SALTS IN LAB ANIMALS. NEITHER LEAD NOR ITS INSOLUBLE SALTS A PPEAR TO BE CARCINOGENIC TO HUMANS OR LAB ANIMALS.

Signs And Symptoms Of Overexposure: INGESTION: SYMPTOMS OF CHRONIC OVEREXPOSURE INCLUDE AMEMIA, INSOMNIA, WEAKNESS, IRRITABILITY, CONSTIPATION AND STOMACH PAINS. ANTIMONY IS TOXIC AND DUST OR FUME CAN CAUSE NASAL SEPTAL ULCERATION AND STOMACH LINING IRRITATION. TIN IS NOT REG ARDED AS TOXIC, BUT EXCESSIVE EXPOSURE CAN CAUSE FEVER, NAUSEA, STOMACH CRAMPS OR DIARRHEA, COPPER IS MODERATELY IRRITATING TO THE LINING OF THE STOMACH AND INTESTINES. SILVER OVEREXPOSURE MAY CAUSE DISCOLORATION OF EYES AND SKIN.

First Aid: EYE: FLUSH WITH WATER FOR 15 MINS. SKIN: WASH THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: INDUCE VOMITING IF PERSON IS CONSCIOUS. GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION. NO TE TO PHYSICIAN: N/A.

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Handling and Disposal  
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Spill Release Procedures: ALLOW TO SOLIDIFY AND COLLECT IN SEALED DRUMS FOR DISPOSAL.

Waste Disposal Methods: RETURN TO SUPPLIER FOR REPROCESSING.

Handling And Storage Precautions: STORAGE: STORE IN DRY CONDITIONS. AVOID STORAGE NEAR ACETYLENE, CHLORINE OR HYDROGEN PEROXIDE (DUE TO COPPER CONTENT).

Other Precautions: HANDLING: LEAD USE IS REGULATED UNDER OSHA29CFR1910.1025. NO FOOD OR DRINK SHOULD BE ALLOWED IN AREAS WHERE THESE PRODUCTS ARE HANDLED. PERSONNEL MUST WASH THOROUGHLY AFTER HANDLING THE METAL BEFORE DRINKING, EATING OR SMOKING.

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Fire and Explosion Hazard Information  
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Flash Point Text: NOT FLAMMABLE

Fire Fighting Procedures: IF THIS METAL IS PRESENT WHERE THERE IS A FIRE, WEAR SELF CONTAINED BREATHING APPARATUS IN CASE OF TOXIC LEAD FUMES.

Unusual Fire/Explosion Hazard: SPECIAL PRECAUTIONS: NONE.  
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Control Measures  
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Respiratory Protection: ONLY REQUIRED IF TLV'S ARE EXCEEDED. USE A NIOSH/MSHA APPROVED RESPIRATOR FOR TOXIC DUST AND/OR FUME. NOTE: SEE 29CFR1910.1025 SUBPART (F) OF OSHA'S LEAD STANDARD.

Ventilation: IF FUME OR DUST IS BEING GENERATED, MECHANICAL VENTILATION MUST BE PROVIDED TO MAINTAIN EXPOSURE LEVELS BELOW TLV'S

Protective Gloves: NOT NORMALLY NEEDED.

Eye Protection: WEAR SAFETY GLASSES DURING SOLDERING OPERATIONS.

Other Protective Equipment: NONE PROVIDED BY MFR

Work Hygienic Practices: NONE PROVIDED BY MFR

Supplemental Safety and Health: PRODUCT NAME:  
TIN/LEAD/ANTIMONY/SILVER/BISMUTH  
ALLOYS. MSDS3.3.  
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Physical/Chemical Properties  
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M.P/F.P Text: 360 TO 620 F

Decomp Text: NONE PROVIDED BY MFR

Vapor Pres: NOT VOLATILE

Vapor Density: NOT VOLATI

Spec Gravity: 7 TO 11 APPROX.

Viscosity: NONE PROVIDED BY MFR

Solubility in Water: NIL

Appearance and Odor: SILVER TO GREY METAL. NO ODOR

Percent Volatiles by Volume: NIL

Corrosion Rate: NONE PROVIDED BY MFR  
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Reactivity Data  
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Stability Indicator: YES

Materials To Avoid: STRONG ACIDS, OXIDIZERS, REDUCING AGENTS, HALOGENS.

Hazardous Decomposition Products: LEAD FUMES AT HIGH TEMPERATURES (ABOVE 800 F)

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: WILL NOT OCCUR  
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Toxicological Information  
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Toxicological Information: SYSTEMIC AND OTHER EFFECTS: UNK.

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MSDS Transport Information  
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Transport Information: SHIPPING INFORMATION: THIS MATERIAL IS NOT REGULATED BY 49 CFR (CODE OF FEDERAL REGULATIONS, TRANSPORTATION) WHILE IN A SOLID BAR FORM. HOWEVER, IF IN SMALL PARTICLE FORM LESS THAN 0.004 INCHES IN DIAMETER, CERTAIN ALLOYS BY WEIGHT (LEAD>1,000 LBS., ANTIMONY>5,000 LBS., SILVER>1,000 LBS.) ARE REGULATED AS: RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, N.O.S. (INSERT METAL), 9, UN3077, PG III.

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Regulatory Information  
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Sara Title III Information: THIS PRODUCT CONTAINS A CHEMICAL SUBJECT TO SECTION 313 OF SARA TITLE III.  
State Regulatory Information: WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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Other Information  
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Other Information: HAZARD RATING: BASED ON NFPA AND NPCA SYSTEMS: HEALTH-2, FLAMMIBILITY-0, REACTIVITY-0, SPECIAL HAZARD-W.

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Transportation Information  
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Responsible Party Cage: U0132  
Trans ID NO: 155522  
Product ID: TIN/LEAD/ANTIMONY/SILVER/BISMUTH ALLOYS  
MSDS Prepared Date: 03/31/1997  
Review Date: 12/07/2000  
MFN: 1  
Net Unit Weight: 1 LB SPOOL  
Multiple KIT Number: 0  
Review IND: Y  
Unit Of Issue: SL  
Container QTY: ONE  
Type Of Container: SPOOL

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Detail DOT Information  
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DOT PSN Code: ZZZ  
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail IMO Information  
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IMO PSN Code: ZZZ  
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

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Detail IATA Information  
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IATA PSN Code: ZZZ  
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail AFI Information  
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AFI PSN Code: ZZZ

AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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HAZCOM Label

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Product ID: TIN/LEAD/ANTIMONY/SILVER/BISMUTH ALLOYS

Cage: U0132

Assigned IND: Y

Company Name: FRY TECHNOLOGY

Street: 4100 SIXTH AVENUE

City: ALTOONA PA

Zipcode: 16602

Health Emergency Phone: 814-946-1611

Label Required IND: Y

Date Of Label Review: 12/07/2000

Status Code: A

Origination Code: F

Eye Protection IND: YES

Skin Protection IND: NO

Signal Word: WARNING

Respiratory Protection IND: YES

Health Hazard: Moderate

Contact Hazard: Moderate

Fire Hazard: None

Reactivity Hazard: None

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