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FRY TECHNOLOGY -- TIN/LEAD/ANTIMONY/SILVER/BISMUTH ALLOYS -- 3439-00-269-9610

======== Product Identification ============

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

MSDS Date:03/31/1997

FSC:3439

NIIN:00-269-9610 Status Code:A

MSDS Number: CKWMM === Responsible Party ===

Company Name: FRY TECHNOLOGY

Address:4100 SIXTH AVENUE

City:ALTOONA

State:PA ZIP:16602 Country:US

Info Phone Num:814-946-1611

Emer

gency Phone Num:814-946-1611

Resp. Party Other MSDS Num.:MSDS3.3

Preparer's Name: JOHN LAUGHLIN/JACK WAGNER

Chemtrec Ind/Phone:(800)424-9300

CAGE:UO132

=== Contractor Identification ===
Company Name:FRY TECHNOLOGY

Address:4100 SIXTH AVENUE

Box:City:ALTOONA

State:PA ZIP:16602 Country:US

Phone:814-946-1611

CAGE:UO132

======= Composition/Information on Ingredients ========

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

DOT

Rpt Qty:1 LB

Ingred Name:TIN CAS:7440-31-5 RTECS #:XP7320000 OSHA PEL:2.0 MG/CUM ACGIH TLV:2 MG/CUM

Ingred Name:SILVER
CAS:7440-22-4
RTECS #:VW3500000
OSHA PEL:0.01 MG/CUM
ACGIH TLV:0.1 MG/CUM
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

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

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

=========== Hazards Identification ==========================

Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES
Health Hazards Acute and Chronic: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 LE

AD, ETC. IN THE BLOOD STREAM. INGESTION: INGESTION OF DUST OR FUME MUST BE AVOIDED. LEAD IS TOXIC AND CUMUL ATIVE, 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 APPEAR TO BE CARCINOGEN IC TO HUMANS OR LAB ANIMALS. Effects 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 S TOMACH LINING IRRITATION. TIN IS NOT REGARDED AS TOXIC, BUT EXCESSIVE EXPOSURE CAN CAUSE FEVER, NAUSEA. STOMACH CRAMPS OR DIARRHEA, COPPER IS MODERATELY IRRITATING TO THE LINING OF THE STOMACH AND INT ESTINES. SILVER OVERE **XPOSURE 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. NOTE TO PHYSICIAN: N/A. Flash Point: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.

========= Accidental Release Measures ==============

============ Handling and Storage ===========================

Handling and Storage Precautions: STORAGE: STORE IN DR

FOR DISPOSAL.

Spill Release Procedures: ALLOW TO SOLIDIFY AND COLLECT IN SEALED DRUMS

AVOID STORAGE NEAR ACETYLENE, CHLORINE OR HYDROGEN PEROXIDE (DUE TO COPPER CONTENT). Other Precautions: HANDLING: LEAD USE IS REGULATED UNDER OSHA 29CFR1910.1025. 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. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: ONLY REQUIRED IF TLV'S ARE EXCEEDED. USE 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 N AME: TIN/LEAD/ANTIMONY/SILVER/BISMUTH ALLOYS. MSDS3.3. ========= Physical/Chemical Properties =========== Melt/Freeze Pt:M.P/F.P Text:360 TO 620 F Decomp Temp: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 ======= Stability and Rea ctivity Data ======== Stability Indicator/Materials to Avoid:YES STRONG ACIDS, OXIDIZERS, REDUCING AGENTS, HALOGENS. Hazardous Decomposition Products: LEAD FUMES AT HIGH TEMPERATURES (ABOVE 800 F) Conditions to Avoid Polymerization: WILL NOT OCCUR ======== Toxicological Information =========== Toxicological Information: SYSTEMIC AND OTHER EFFECTS: UNK. ======== Disposal Considerations ============= Waste Disposal Methods: RETURN TO SUPPLIER

Y CONDITIONS.

FOR REPROCESSING.
======== MSDS Transport Information ==========
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 DIA METER, CERTAIN ALLOYS BY WEIGHT (LEAD>1,000 LBS., ANTIMONY>5,000 LBS., SILVER>1,000 LBS.) ARE REGULATED AS: RQ, ENVIRONMENTALLY HAZARDOUS SUBSSTANCES, N.O.S. (INSE RT METAL), 9, UN3077, PG III.
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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 SATE OF CALIFORNIA TO CAUSE CANCER OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.
=========== Other Information ============
Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department

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