

ALPHA METALS -- SOLDER ALLOYS OF PB, SN, AG, BI, SB, AND IN -- 3439-00-269-9610

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Product Identification
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Product ID:SOLDER ALLOYS OF PB, SN, AG, BI, SB, AND IN

MSDS Date:10/24/1990

FSC:3439

NIIN:00-269-9610

MSDS Number: BWLCK

=== Responsible Party ===

Company Name:ALPHA METALS

Address:600 ROUTE 440

City:JERSEY CITY

State:NJ

ZIP:07304

Country:US

Info Phone Num:201-434-6778

Emergency Phon

e Num:201-434-6778, 800-424-9300

CAGE:96613

=== Contractor Identification ===

Company Name:FRYS METALS INC (FORMER ALPHA METALS)

Address:600 ROUTE 440

Box:City:JERSEY CITY

State:NJ

ZIP:07304

Country:US

Phone:201-434-6778

CAGE:96613

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Composition/Information on Ingredients
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Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.05 MG/M3;1910.1025

ACGIH TLV:0.15 MG/M3;DUST 9192

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Na

me:TIN
CAS:7440-31-5
RTECS #:XP7320000
Other REC Limits:NONE SPECIFIED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9192

Ingred Name:SILVER (SARA III)
CAS:7440-22-4
RTECS #:VW3500000
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.01 MG/M3
ACGIH TLV:0.1 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:BISMUTH
CAS:7440-69-9
RTECS #:EB2600000
Other REC Limits:NONE SPECIFIED

Ingred Name:ANTIMONY (SARA III)
CAS:7440-36-0
RTECS #:CC4025000
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.5 MG/M3
ACGIH TLV:0.
5 MG SB/M3; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:INDIUM
CAS:7440-74-6
RTECS #:NL1050000
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.1 MG/M3
ACGIH TLV:0.1 MG/M3; 9192

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

Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:CHRONIC TOXICITY: WOMEN OF CHILD
BEARING AGE SHOULD AVOID EXPOSURE TO LEAD AND ITS INORGANIC

COMPOUNDS DUE TO POST-NATAL EFFECTS. LEAD CAN CAUSE POTENTIAL INJURY TO A DEVELOPING FETUS AND POSSIBLE EFFECTS ON REPRODUCTION. LEAD AND ITS INORGANIC COMPOUNDS ARE NEUROTOXINS.

Explanation of Carcinogenicity:IARC CLASSIFIES LEAD AND SOME LEAD COMPOUNDS AS POSSIBLY CARCINOGENIC TO HUMANS. NOT LISTED BY NTP OR OSHA.

Effects of Overexposure:LEAD: EXPOSURE TO HIGH LEVELS OF AIRBORNE OF INGESTED LEAD MAY PRODUCE SYMPTOMS OF ANEMIA, INSOMNIA, WEAKNESS, CONSTIPATION, NAUSEA

AND ABDOMINAL PAIN. OVEREXPOSURE MAY CAUSE DAMAGE TO BLOOD-FORMING, NERVOUS, REPRODUCTIVE, INTESTINAL AND URINARY SYSTEMS.

Medical Cond Aggravated by Exposure:DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS, KIDNEY, NERVOUS AND POSSIBLY REPRODUCTIVE SYSTEMS.

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===== First Aid Measures =====

First Aid:INHALATION:LEAD-EXCESSIVE OVEREXPOSURE MAY RESULT IN AN ACUTE OR CHRONIC ILLNESS. IF SYMPTOMS ARE PRESENT, THE INDIVIDUAL SHOULD BE REM

MOVED FROM EXPOSURE AND A PHYSICIAN CONSULTED. INGESTION:CALL A PH YSICIAN OR POISON CONTROL CENTER AT ONCE. SKIN:FOR HOT METAL BURNS, EXPOSED AREA SHOULD BE COOLED WITH WATER AND MEDICAL ATTENTION SOUGHT. EYES:FLUSH WITH WATER, CONTACT A PHYSICIAN.

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===== Fire Fighting Measures =====

Flash Point:NA

Autoignition Temp:Autoignition Temp Text:NA

Lower Limits:NA

Upper Limits:NA

Extinguishing Media:NA

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SELF-CONTAINED

BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING IF INVOLVED IN A FIRE.

Unusual Fire/Explosion Hazard:MODERATE IN THE FORM OF DUST WHEN EXPOSED TO HEAT OR FLAME. WHEN HEATED TO HIGH TEMPERATURES, LEAD EMITS HIGHLY TOXIC FUMES.

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

Spill Release Procedures:AVOED INHALATION OF SOLDER FUME OR DUST.

VACUUMING OR WASHING IS RECOMMENDED. DO NOT USE DRY SWEEPING OR COMPRESSED AIR CLEANING SYSTEMS.

Neutra

lizing Agent:NA

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Handling and Storage
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Handling and Storage Precautions:FOOD AND DRINK SHOULD NOT BE CONSUMED OF TOBACCO PRODUCTS USED, NOR COSMETICS APPLIED IN AREAS WHERE SOLDER MAY BE USED. ALWAYS WASH HANDS AFTER USE.

Other Precautions:SINCE EMPTY CONTAINERS MAY RETAIN PREDUCT RESIDUES, ALL LABELED HAZARD PRECAUTIONS MUST BE OBSERVED. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

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Exposure Controls/Personal Protection
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Respiratory Protection:A NIOSH/MSHA APPROVED DUST/FUME RESPIRATOR SHOULD BE WORN SHERE AIRBORNE EXPOSURES MAY EXCEED OSHA/ACGIH PERMISSABLE AIR CONCENTRATIONS.

Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW PERMISSABLE LEVELS.

Protective Gloves:PROTECTIVE GLOVES SHOULD BE WORN.

Eye Protection:SAFETY GLASSES AND/OR FACE PROTECTION.

Other Protective Equipment:WORK CLOT HES SHOULD BE WORN AND LAUNDERED IN ACCORDANCE WITH CURRENT OSHA LEAD STANDARDS.

Work Hygienic Practices:AFTER HANDLING SOLID SOLDER WIRE, BAR, ETC., WASH THOROUGHLY WITH SOAP AND WATER. DO NOT EAT/DRINK AROUND THIS PRODUCT.

Supplemental Safety and Health

SN:DUST OR FUME MAY CAUSE IRRTATION OF THE SKIN, MUCOUS MEMBRANES, AND MAY RESULT IN BENIGN PNEUMOCONIOSIS. AG:MAY CAUSE DISCOLORATION OF EYES AND SKIN. BI:MAY CAUSE FOUL BREATH, A BLUE- BLACK LINE ON THE GUMS AND STOMA

TITIS. SB:MAY CAUSE GASTROINTESTINAL UPSET, SLEEPLESSNESS, IRRITABILITY AND MUSCULAR PAIN.

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Physical/Chemical Properties
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HCC:N1

Boiling Pt:B.P. Text:NA

Melt/Freeze Pt:M.P/F.P Text:NA

Decomp Temp:Decomp Text:NA

Vapor Pres:NA

Vapor Density:NA

Spec Gravity:NA

pH:NA

Viscosity:NA

Evaporation Rate & Reference:NA

Solubility in Water:INSOLUBLE

Appearance and Odor:SILVER-GRAY METAL, ODORLESS, VARIOUS SHAPES AND SIZES.

Percent Volatiles by Volume:NA

Cor

rosion Rate:NA

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

OXIDING MATERIALS, ACIDS, HYDROGEN PEROXIDE > 52%

Stability Condition to Avoid:NA

Hazardous Decomposition Products:LEAD OXIDE AND ANTIMONY OXIDE FUME MAY
BE EVOLVED AT TEMPERATURES GREATER THAN 1000 F (538 C).

===== Disposal Considerations =====

Waste Disposal Methods:SCRAP OR WASTE SOLDER SHOULD BE RECYCLED OF
STORED IN SEALED
CONTAINERS FOR LATER DISPOSAL. MUST BE IN
ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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