

SOLDER ALLOYS OF PB, SN, AG, BI, SB, AND IN

MSDS Number

BWLCK

National Stock Number

3439-00-269-9610

Product Name

SOLDER ALLOYS OF PB, SN, AG, BI, SB, AND IN

Manufacturer

ALPHA METALS

Product Identification

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

ALPHA METALS

600 ROUTE 440

JERSEY CITY , NJ 07304

US

Emergency Phone: 201-434-6778, 800-424-9300

Info Phone: 201-434-6778

Cage: 96613

Contractor

FRYS METALS INC (FORMER ALPHA METALS)

JERSEY CITY, NJ 07304

US

201-434-6778

Cage: 96613

Ingredients

LEAD (SARA III)

CAS: 7439-92-1

RTECS: OF7525000

OSHA PEL0.05 MG/M3;1910.1025

ACGIH TLV: 0.15 MG/M3;DUST 9192

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

TIN

CAS: 7440-31-5

RTECS: XP7320000

OSHA PEL2 MG/M3

ACGIH TLV: 2 MG/M3; 9192

SILVER (SARA III)

CAS: 7440-22-4

RTECS: VW3500000

OSHA PEL0.01 MG/M3

ACGIH TLV: 0.1 MG/M3; 9192

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

BISMUTH

CAS: 7440-69-9

RTECS: EB2600000

ANTIMONY (SARA III)

CAS: 7440-36-0

RTECS: CC4025000

OSHA PEL0.5 MG/M3

ACGIH TLV: 0.5 MG SB/M3; 9192

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

INDIUM

CAS: 7440-74-6

RTECS: NL1050000

OSHA PEL0.1 MG/M3

ACGIH TLV: 0.1 MG/M3; 9192

Hazards

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.

First Aid

First Aid:INHALATION:LEAD-EXCESSIVE OVEREXPOSURE MAY RESULT IN AN ACUTE OR CHRONIC ILLNESS. IF SYMPTOMS ARE PRESENT, THE INDIVIDUAL SHOULD BE REMOVED FROM EXPOSURE AND A PHYSICIAN CONSULTED. INGESTION:CALL

A PHYSICIAN 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.

Fire Fighting

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.

Accidental Release

Spill Release Procedures:AVOID INHALATION OF SOLDER FUME OR DUST. VACUUMING OR WASHING IS RECOMMENDED. DO NOT USE DRY SWEEPING OR COMPRESSED AIR CLEANING SYSTEMS.
Neutralizing Agent:NA

Handling

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 PRODUCT RESIDUES, ALL LABELED HAZARD PRECAUTIONS MUST BE OBSERVED. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

Exposure Controls

Respiratory Protection:A NIOSH/MSHA APPROVED DUST/FUME RESPIRATOR SHOULD BE WORN WHERE 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 CLOTHES 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 IRRITATION 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 STOMATITIS. SB:MAY CAUSE GASTROINTESTINAL UPSET, SLEEPLESSNESS, IRRITABILITY AND MUSCULAR PAIN.

Chemical Properties

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
Corrosion Rate:NA

Stability

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

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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