

SOLDER ALLOYS OF LEAD,TIN,SILVER,BISMUTH,ANTIMONY,INDIUM

MSDS Number

BWBZL

National Stock Number

3439-00-184-8953

Product Name

SOLDER ALLOYS OF LEAD,TIN,SILVER,BISMUTH,ANTIMONY,INDIUM

Manufacturer

ALPHA METALS

Product Identification

Product ID: SOLDER ALLOYS OF LEAD,TIN,SILVER,BISMUTH,ANTIMONY,INDIUM

MSDS Date: 10/24/1990

FSC: 3439

NIIN: 00-184-8953

MSDS Number: BWBZL

Responsible Party

ALPHA METALS

600 ROUTE 440

JERSEY CITY , NJ 07304

US

Emergency Phone: 201-434-6778/800-424-9300(CHEMTREC)

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

Fraction By Weight: SEE #7%

OSHA PELSEE 1910.1025

ACGIH TLV: 0.15 MG/M3,DUST;9394

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

TIN

CAS: 7440-31-5

RTECS: XP7320000

Fraction By Weight: SEE #7%

OSHA PEL2 MG/M3

ACGIH TLV: 2 MG/M3; 9394

SILVER (SARA III)

CAS: 7440-22-4

RTECS: VW3500000

Fraction By Weight: SEE #7%

OSHA PEL0.01 MG/M3

ACGIH TLV: 0.1 MG/M3; 9394

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

BISMUTH

CAS: 7440-69-9

RTECS: EB2600000

Fraction By Weight: SEE #7%

ANTIMONY (SARA III)

CAS: 7440-36-0

RTECS: CC4025000

Fraction By Weight: SEE #7%

OSHA PEL0.5 MG/M3

ACGIH TLV: 0.5 MG (SB)/M3; 9394

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

INDIUM

CAS: 7440-74-6

RTECS: NL1050000

Fraction By Weight: SEE #7%

OSHA PEL0.1 MG/M3

ACGIH TLV: 0.1 MG/M3; 9394

PROD CONTAIN 1 OR MORE OF THESE METALLIC ELEMENTS

RTECS: 9999999ZZ

Hazards

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:EXPO TO HIGH LEVELS OF AIRBORNE/INGEST

LEAD MAY PRODUCE SYMPTOMS OF

ANEMIA,INSOMNIA,WEAKNESS,CONSTIPATION,NAU,ABDOMINAL PAIN.OVEREXPO

MAY CAUSE DAMAGE TO BLOOD-FORMING,NERVOUS,REPRODUCTIVE,INTESTINAL

& URINARY SYSTEMS.WOMEN OF CHILD BEARING AGE SHOULD AVOID EXPO TO

LEAD & ITS INORG CMPDS DUE TO POSSIBLE POST-NATAL EFFE

Explanation of Carcinogenicity:PER MSDS:NONE OF METAL ELEMENTS IN PROD

CONFIRMED AS HUMAN CARCINOGEN.IARC CLASSIFIES LEAD & SOME LEAD CMPDS AS 2B CARCI
Effects of Overexposure:ANEMIA,INSOM,WEAKN,CONSTIP,NAU,ABDOM PAIN.DAMAGE TO BLOOD-FORMING,NERVOUS,REPROD,INTESTINAL & URINARY SYS.SN:SKIN/MUC/MEMB IRRIT,BENIGN PENUMOCONIOSIS(STANNOSIS).AG:EYE/SKIN(ARGYRIA)DISCOLORATION.BI:F OUL BREATH,BLUE-BLACK LINE ON GUMS/STOMATITIS.SB:GI/RESP IRRIT,SLEEPLESSNESS,IRRITY,MUSCULAR PAIN.IN:WT LOSS,PULM EDEMA
Medical Cond Aggravated by Exposure:DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS, KIDNEYS, NERVOUS AND POSSIBLY REPRODUCTIVE SYSTEMS.

First Aid

First Aid:INHLA:REMOVE FROM EXPOUSRE. CONSULT PHYSICIAN. INGEST:CALL PHYSICIAN OR POISON CNTRL CNTR @ ONCE. SKIN:HOT METAL BURNS:COOL W/WATER.SEEK MED ATTN. EYE:FLUSH W/WATER. CONTACT PHYSICIAN. DUST/FUME MAY C AUSE IRRIT.

Fire Fighting

Extinguishing Media:N/A. HOWEVER USE APPROPRIATE EXTINGUISHING MEDIA FOR SURROUNDING FIRE.
Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING IF INVOLVED IN 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 INHAL OF SOLDER FUME/DUST.VACUUMING/WASHING IS RECOMMENDED.DO NOT USE DRY SWEEPING OR COMPRESSED AIR CLEANING SYSTEMS.
Neutralizing Agent:NONE SPECIFIED BY MFG.

Handling

Handling and Storage Precautions:DO NOT CONSUME FOOD/DRINK,USE TABOCCO NOR APPLY COSMETICS IN AREAS WHERE SOLDER MAY BE USED.FOR INDUSTRIAL USE ONLY.KEEP OUT OF REACH OF CHILDREN.
Other Precautions:SINCE EMPTY CNTNR MAY RETAIN PROD RESIDUE(VAP/LIQ/SOLID)ALL LABELED HAZ PRECAUTIONS MUST BE OBSERVE.DUST/VAP/FUME ARE NOT READILY ABSORBED THRU SKIN.FOR OCCUPA EXPO REQMTS SEE 29CFR1910.1025 LEAD STD & ITS APPENDICES.DON'T TAKE INTERNALLY.

Exposure Controls

Respiratory Protection:NIOSH/MSHA APPROVED DUST/FUME RESP SHOULD BE WORN WHERE AIRBORNE EXPOSURES MAY EXCEED OSHA/ACGIH PERMISSABLE AIR CONCENTRATIONS.
Ventilation:PROVIDE SUFFICIENT MECHANICAL(GEN &/OR LOC EXHAUST)VENTILATION TO MAINTAIN EXPO BELOW PERMISSABLE AIR CONCENTRATIONS.
Protective Gloves:PROTECTIVE GLOVES REQUIRED.
Eye Protection:SAFETY GLASSES &/OR FACESHIELDS.
Other Protective Equipment:WORK CLOTHE SHOULD BE WORN & LAUNDERED IN ACCORDANCE WITH CURRENT OSHA LEAD STANDARDS.
Work Hygienic Practices:BEFORE EAT/DRINK/SMOKE & AFTER HANDLING SOLID SOLDER WIRE/BAR/ETC WASH THOROUGHLY W/SOAP & WATER.
Supplemental Safety and Health
NOTE TO PHYSICIAN:LEAD & ITS CMPDS ARE NEUROTOXINS WHICH MAY PRODUCE PERIPHERAL NEUROPATHY.FORE OVERVIEW OF EFFECTS OF LEAD EXPO CONSULT OSHA APPX A OF OCCUPA EXPO TO LEAD (29CFR1910.1025).

Chemical Properties

HCC:N1
Solubility in Water:INSOLUBLE
Appearance and Odor:SILVER-GRAY METAL, ODORLESS, VARIOUS SHAPES AND SIZES.

Stability

Stability Indicator/Materials to Avoid: YES

OXIDIZING MATERIALS, ACIDS, HYDROGEN PEROXIDE >52%.

Hazardous Decomposition Products: LEAD OXIDE, ANTIMONY OXIDE FUME MAY BE EVOLVED @ TEMPS >1000F(538C).

Disposal

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

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