

ALPHA METALS -- SOLDER ALLOYS OF PB, SN, AG, BI, SB, AND IN -- 3439-01-045-7939

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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:01-045-7939

MSDS Number: BKLWC

=== 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 N

ame: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:YES Skin:YES Ingestion:YES
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 INORGA

NIC

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

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, INSOMNI A, 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 PRE SENT, THE INDIVIDUAL SHOULD BE REMOVED 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 =====

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING IF INVOLVED I N 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.

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

Handling a

nd 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.

===== Exposure Controls/Personal Protection =====

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:NONE SPECIFIED BY MANUFACTURER.

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.

===== Physical/Chemical Properties =====

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HCC:N1

Evaporation Rate & Reference:NA/

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

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

Stability Indicator/Materials to Avoid:YES

OXIDING MATERIALS, ACIDS, HYDROGEN PEROXIDE > 52%

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 OR STORED IN SEALED CONTAINERS FOR LATER DISPOSAL. MUST BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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