

ALPHA METALS -- SOLDER ALLOYS OF PB,SN,AG,BI,SB,& IN -- 3439-01-224-5787

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

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

MSDS Date:08/13/1987

FSC:3439

NIIN:01-224-5787

MSDS Number: BHXZY

=== 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 Phone Num:201-434-6

778

CAGE:96613

=== Contractor Identification ===

Company Name:DEANCO INC

Address:7933 QUEENAIR DR

Box:City:GAITHERSBURG

State:MD

ZIP:20879-4137

Country:US

Phone:301-948-5444

CAGE:9K946

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

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

Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Fraction by Wt: 35.53%

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 Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
Fraction by Wt: 63.5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9192

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: 0.02%
Other REC Limits:NONE SPECIFIED

Ingred Name:BISMUTH
CAS:7440-69-9
RTECS #:EB2600000
Fraction by Wt: 0.25%
Other REC Limits:NONE SPECIFIED

Ingred Name:ANTIMONY (SARA III)
CAS:7440-36-0
RTECS #:CC4025000
Fraction by Wt: 0.5%
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:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 0.08%
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2MG/M3 FUME; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ZINC (SARA III)
CAS:7440-66-6
RTECS #:ZG8600000
Fraction by Wt: 0.005%
Other REC

Limits:NONE SPECIFIED
OSHA PEL:10 MG ZNO/M3
ACGIH TLV:10 MG ZNO/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:ALUMINUM (SARA III)
CAS:7429-90-5
RTECS #:BD0330000
Fraction by Wt: 0.005%
Other REC Limits:NONE SPECIFIED
OSHA PEL:15MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:OTHER COMPONENTS (TYPE NOT SPECIFIED)
Fraction by Wt: 0.08% MX
Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation
:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:PRODUCT PRODUCES THERMAL BURNS ON
CONTACT DURING THE SOLDERING OPERATION. INHALING FLUX FUMES MAY
CAUSE PULMONARY EDEMA. CHRONIC INHALATION OF THE METAL FUMES
ASSOCIATED WITH SOLDERING MAY CAUSE LEAD POISONING.
Explanation of Carcinogenicity:LEAD AND SOME LEAD COMPOUNDS ARE LISTED.
SEE INDIVIDUAL REPORTS FOR DETAILS.
Effects of Overexposure:EYE:IRRITATION,THERMAL BURNS. SKIN:THERMAL
BURNS. INHALED:RESPIRATORY IRRITATION, PULMONARY EDEMA. LEAD
POISONING. INGESTED:LEAD POISONING.
Medical Cond Aggravated by Exposure:PEOPLE WITH LEAD OVEREXPOSURE MAY
BE AT INCREASED RISK.

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

First Aid:EYE:FLUSH W/WATER 15 MIN. SKIN:NORMAL FIRST AID FOR THERMAL
BURNS. INHALED:REMOVE TO FRESH AIR. INGESTED:AN UNLIKELY
EXPOSURE. IF INGESTION OCCURS, GET IMMEDIATE MEDICAL CARE. MONIT

OR
BLOOD LEAD CONTENT.

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

Flash Point:NON-FLAMMABLE

Extinguishing Media:PRODUCT IS NON FLAMMABLE. EXTINGUISH FIRE WITH MEDIA APPROPRIATE FOR SOURCE OF FIRE.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS (METAL OXIDE FUME).

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

Spill Release Procedures:ALLOW TO COOL AND PICK OR SWEEP UP.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:NONE

Other Precautions:SEE "SAFETY IN SOLDERING" BY LEAD INDUSTRIES ASSOC. 292 MADISON AVE NEW YORK,NY 10017.

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

Respiratory Protection:NOT NORMALLY REQUIRED. USE NIOSH/MSHA APPROVED RESPIRATOR FOR METAL/METAL OXIDE FUME IF PEL/TLV IS EXCEEDED.

Ventilation:USE LOCAL EXHAUST TO KEEP EXPOSURES BELOW PEL/TLV

Protective Gloves:TO PROTECT FROM THERMAL BURNS

Eye Protection:SAFETY GLASSES OR SPLASH GOGGLES

Other Protective Equipment:AS NEEDED TO PROTECT FROM THERMAL BURNS.

Work Hygienic Practices:USE GOOD CHEMICAL HYGIENE PRACTICES. AVOID ANY POSSIBILITY OF INGESTION OR INHALATION OF LEAD FUMES.

Supplemental Safety and Health

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

HCC:N1

Solubility in Water:NEGLIGIBLE

Appearance and Odor:SILVER GRAY SOFT METAL WIRE, NO ODOR

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, ACIDS, HYDROGEN PEROXIDE

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:METAL OXIDE FUMES OF LEAD, ANTIMONY

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

rationals =====

Waste Disposal Methods:DISPOSE I/A/W FEDERAL,STATE,LOCAL REGULATIONS.
RECOVER METAL IF POSSIBLE, OR LANDFILL.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document
should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.