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

MSDS Date:08/13/1987

FSC:3439

NIIN:00-015-5327

MSDS Number: BRNGN === Responsible Party ===

Company Name: ALPHAMETALS INC.

Address:600 RT 440 City:JERSEY CITY

State:NJ

ZIP:07304-1027

Country:US

Info Phone Num:201-434-6778

Emergency Phone Num:201-434-6778

CAGE:96913

=== Contractor Identifica

tion ===

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: KINDEL R E AND CO

Address:326 E 3RD Box:City:CINCINNATI

State:OH

ZIP:45202-3510 Country:US CAGE:96913

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

Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.05 MG/M3;1910.1025 ACGIH TLV:0.15 MG/M3;DUST 9293

EPA Rpt Qty:1

LB DOT Rpt Qty:1 LB

Ingred Name:TIN CAS:7440-31-5

RTECS #:XP7320000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 9293

Ingred Name: SILVER (SARA III)

CAS:7440-22-4

RTECS #:VW3500000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.01 MG/M3 ACGIH TLV:0.1 MG/M3; 9293

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:BISMUTH

CAS:7440-69-9

RTECS #:EB2600000

Other REC Limits: NONE RECOMMENDED

Ingred Name: ANTIMONY (SARA III)

CAS:7440-36-0

RTECS #:CC4025000

Other REC Limits: NONE RE

COMMENDED

OSHA PEL:0.5 MG/M3

ACGIH TLV:0.5 MG SB/M3; 9293

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: INDIUM

CAS:7440-74-6

RTECS #:NL1050000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.1 MG/M3

ACGIH TLV:0.1 MG/M3; 9293

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

LD50 LC50 Mixture:TLV LEAD=0.05 MG/M3

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO Health Hazards Acute and Chronic:MOLTEN SOLDER DOE

S NOT PRODUCE SIGNIFICANT QUANTITIES OF FUME BELOW 900F.TIN:DUST/FUMES MAY IRRITATE SKIN AND MUCOUS MEMBRANES,POSSIBLE LUNG DAMAGE.SILVER:MAY DISCOLOR SKIN,EYES.BISMUTH:GUM DISCOLORAT ION/INFLAMATION.ANTIMONY:GI UPSET,INDIUM:MAY CAUSE BLOOD DAMAGE,LIVER AND KIDNEY DAMAGE.LEAD:LIVE AND CNS DAMAGE. Explanation of Carcinogenicity:LEAD COMPOUNDS ARE CONSIDERED TO BE A CANCER RISK BY IARC. Effects of Overexposure:ANTIMONY:SLEEPLESSNESS,IRITABILITY,MUSCLE PAIN.INDIUM:WEIGHT LOSS.BISMUTH:BAD BREATH.SILVER:DISCOLORATION OF EYES AND SKIN.TIN:IRRITATION.LEAD:ANEMIA,INSOMNIA,WEAKNESS,CONSTIPATION,NAUS EA,ABDONIMAL PA IN. Medical Cond Aggravated by Exposure:WOMEN OF CHILD BEARING AGE SHOULD AVOID CONTACT WITH LEAD.
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First Aid:INHAL:REMOVE FROM EXPOSURE.CALL PHYSICIAN.INGEST:CALL PHYSICIAN OR POISON CONTROL CENTER.SKIN:HOT MEATL BURNS SHOULD BE COOLED WITH WATER;CALL PHYSICIAN.E YES:FLUSH WITH WATER;CAONTACT PHYSICIAN.
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Flash Point:NONE Extinguishing Media:USE MEDIA APPROPRAITE FOR SURROUNDING FIRE. Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. Unusual Fire/Explosion Hazard:THIS PRODUCT IN DUST FORM IS AN EXPLOSION HAZARD.LEAD FUMES ARE TOXIC.
======== Accidental Release Measures ==========
Spill Release Procedures:AVO ID INHALING FUMES OR DUST.VACUUMING IS RECOMMENDED.PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL. Neutralizing Agent:NONE
=========== Handling and Storage ============
Handling and Storage Precautions:DO NOT USE OR CONSUME FOOD,DRINK,TOBACCO OR COSMETICS IN WORK AREA. Other Precautions:EMPTY PRODUCT CONTAINERS RETAIN RESIDUE AND MUST BE LABELED"FOR INDUSTRIAL USE ONLY.KEEP OUT OF REACH OF CHILDREN.DO NOT TAKE INTERNALLY".

===== Exposure Controls

/Personal Protection =======
Respiratory Protection:USE A NIOSH APPROVED DUST/FUME RESPIRATOR WHEN TLV IS EXCEEDED.
Ventilation:USE MECHANICAL(GENERAL) OR LOCAL EXHAUST.
Protective Gloves:TO AVOID BURNS.
Eye Protection:SAFETY OR WELDING GLASSES/HOOD.
Other Protective Equipment: WORK CLOTHES SHOULD BE WORN.
Work Hygienic Practices:WASH HANDS.SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK AREA.
Supplemental Safety and Health
NONE
========= Physical/Chemical Properties ==========
HCC:N1 NRC/State Lic Num:NONE Solubility in Water:INSOLUBLE Appearance and Odor:METAL;SILVER-GRAY;ODORLESS
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES OXIDIZING MATERIELS.ACIDS.HYDROGEN PEROXIDE.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:LEAD FUMES AND LEAD PARTICULATES.

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

Waste Disposal Methods: RECYLCLE OR DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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