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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

**Emer** 

gency Phone Num:201-434-6778

CAGE:96913

=== 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: 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 (S

ARA III)

CAS:7440-36-0

RTECS #:CC4025000

Other REC Limits: NONE RECOMMENDED

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 IAR

C:YES OSHA:NO  Health Hazards Acute and Chronic:MOLTEN SOLDER DOES 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.EYES: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 R
elease Measures =============
Spill Release Procedures:AVOID 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 CHILDR

EN.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.K EEP 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 PARTIC ULATES. ======= Disposal Considerations ============

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

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