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ALPHAMETALS INC. -- SOLDER OF ALLOYS OF LEAD, TIN, SILVER, BISMUTH -- 3439-00-015-5327

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 Emerg ency 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

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 (SA RA 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

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 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. 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. 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 Re

lease 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 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 CHILDRE

N.DO NOT TAKE INTERNALLY".

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.KE EP FOOD OUT OF THE WORK AREA. Supplemental Safety and Health NONE HCC:N1 NRC/State Lic Num:NONE Solubility in Water: INSOLUBLE Appearance and Odor:METAL;SILVER-GRAY;ODORLESS Stability Indicator/Materials to Avoid:YES OXIDIZING MATERIELS, ACIDS, HYDROGEN PEROXIDE. Stability Condition to Avoid:NONE Hazardous Decomposition Products: LEAD FUMES AND LEAD PARTICU LATES.

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

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