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Product ID:SILVER-COPPER-PHOSPHORUS BRAZING ALLOY MSDS Date:11/16/1990 FSC:3439 NIIN:00-262-4182 MSDS Number: BJXXC === Responsible Party === Company Name: ENGLEHARD CORP. ENGINEERED MATERIALS DIV. Address:ROUTE 152 City:PLAINVILLE State:MA ZIP:02762 Country:US Info Phone Num:508-695-7811 Emergency Phone Num:508-695-7811 CAGE:86337 === Contractor Identification === Company Name: ENGELHARD CORP Address:235 KILVERT ST Box:City:WARWICK

State:RI ZIP:02886 Country:US Phone:401-739-9550 CAGE:86337

Ingred Name:COPPER (SARA III) CAS:7440-50-8 RTECS #:GL5325000 Fraction by Wt: 80% Other REC Limits:NONE SPECIFIED OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV:0.2MG/M3 FUME; 9192 EPA Rpt Qty:5000 LB S DOT Rpt Qty:5000 LBS

Ingred Name:SILVER (SARA III) CAS:7440-22-4 RTECS #:VW3500000 Fraction by Wt: 15% 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:PHOSPHOROUS (YELLOW) (SARA III) CAS:7723-14-0 RTECS #:TH3500000 Fraction by Wt: 5% Other REC Limits:NONE SPECIFIED OSHA PEL:0.1 MG/M3 ACGIH TLV:0.1 MG/M3; 9192 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

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utes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:EYE CONTACT CAUSES MILD IRRITATION. METAL PARTICLES CAN INJURE EYE TISSUE. MOLTEN METAL CAN BURN THE SKIN. INHALATION OF COPPER FUMES MAY CAUSE METAL FUME FEVER, NAUSEA, NOSE AND THROAT IRRITATION. IN GESTION SYMPTOMS SIMILAR TO INHALATION ALTHOUGH THESE METALS ARE POORLY ABSORBED THROUGH THE GASTROINTESTINAL TRACT.

Explanation of Carcin

ogenicity:COMPONENTS NOT LISTED.

Effects of Overexposure:PROLONGED OVEREXPOSURE TO SILVER CAN CAUSE A PERMANENT GRAY DISCOLORATION OF THE SKIN AND EYES CALLED ARGYRIA. COPPER CAN CAUSE COPPER POISONING WITH CAPILLARY DAMAGE, LIVER AND KIDNEY DAMAGE WITH PER MANENT DISCOLORATION OF THE SKIN AND EYES. PHOSPHORUS CAN CAUSE GASTROINTESTINAL DISTRESS, NECROSIS AND JAW DEFORMITY.

Medical Cond Aggravated by Exposure:PERSONS WITH IMPAIRED RESPIRATORY FUNCTION OR PRE-EXISTING RESP

IRATORY, AND/OR SKIN DISEASES MAY BE AT INCREASED RISK FROM EXPOSURE TO THIS MATERIAL.

First Aid:INHALATION: REMOVE SUBJECT TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION PREFERABLE MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL PHYSICIAN. EYE: FLUSH WITH PLENTY OF WATE R FOR 15 MINUTES. GET IMMEDIATE MEDICALATTENTION. SKIN: WASH WITH SOAP AND WATER. INGESTION: DO NOT INDUCE VOMI TING. GET IMMEDIATE MEDICAL ATTENTION. Extinguishing Media: THIS MATERIAL IS NOT COMBUSTIBLE IN THE SOLID FORM. USE ANY MEDIA APPROPRIATE FOR THE SURROUNDING FIRE CONDITIONS. Fire Fighting Procedures: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. Unusual Fire/Explosion Hazard:NOT A FIRE OR EXPLOSION HAZAR D AS SOLID. FINELY DIVIDED DUST MAY IGNITE AND BURN RAPIDLY WHEN MIXED WITH AIR IN THE PROPER SITUATION. FIRE MAY EMIT TOXIC FUMES. Spill Release Procedures: CONTAIN SPILLAGE AND PICK UP OR VACUUM. WASH THOROUGHLY AFTER HANDLING. Neutralizing Agent:NONE APPLICABLE FOR THIS MATERIAL Handling and Storage Precautions: STORE IN COOL, DRY LOCATION AWAY FROM STRONG ACIDS AND BASES. KEEP CONTAINER CLOSED. WASH THOROUGHLY AFTER HANDLING. Other Precautions: MAINTAIN ADEQUATE AIRFLOW IF FUMES ARE PRESENT.

Respiratory Protection: IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRATOR SELECTION. Ventilation: MECHANICAL (GENERAL) VENTILATION IS REQUIRED. LOCAL EXHAUST MAY BE REQUIRED IF WORK AREA IS NOT VENTED. Protective Gloves: IMPERVIOUS GLOVES Eye Protection: GLASSES W/ SIDE SHIELDS OR SAFETY GOGGLE Other Protective Equipment:NON-FLAMMABLE PROTECTIVE CLOTHING. Work Hygienic Practices: DO NOT BREATHE FUMES FROM BRAZING. DO NOT BREATHE DUST. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. Supplemental Safety and Health USE ONLY WITH ADEQUATE VENTILATION. DO NOT EAT, DRINK OR SMOKE IN THE WORK AREA. WASH THOROUGHLY WITH SOAP AN D WATER AFTER USE. USE OF BRAZING FLUX MAY POSE ADDITIONAL HAZARDS. REFER TO FLUX MSDS FOR ADDITIONAL PRECAUSTIONS. HCC:N1 Melt/Freeze Pt:M.P/F.P Text:1190F,643C Spec Gravity:7.75 Solubility in Water: INSOLUBLE Appearance and Odor:METALLIC WIRE, ROD OR STRIP. NO ODOR. Stability Indicator/Materials to Avoid:YES STRONG OXIDIZERS, STRONG ACIDS AND BASE S, ACETYLENE, AMMONIA, HYDROGEN PEROXIDE, MAGNESIUM METAL, HALOGENS, ETC. Stability Condition to Avoid:OTHER THAN NORMAL TEMPERATURES AND PRESSURES. Hazardous Decomposition Products: EMITS TOXIC OXIDES OF SILVER, COPPER, AND PHOSPHORUS WHEN HEATED ABOVE THE MELTING POINT OF 1190 F. Waste Disposal Methods: THE PRODUCT, IF DISPOSED OF BY ITSELF, IS A HAZARDOUS WASTE UNDER THE EPA HAZARDOUS WASTE REGS. BECAUSE OF EXTRACTABLE SILVER. WASTE MIXTURES CONTAINING THIS PRODUCT SHOULD BE TESTED BY TCLP METHODOLO GY TO DERTERMINE WASTE CLASSIFICATION. Disclaimer (provided with this information by the compiling agencies):

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