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ENGLEHARD CORP. ENGINEERED MATERIALS DIV. -- SILVER-COPPER-PHOSPHORUS BRAZING ALLOY -- 3439-00-262-4182

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

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

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 LBS

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

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

Rou

tes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

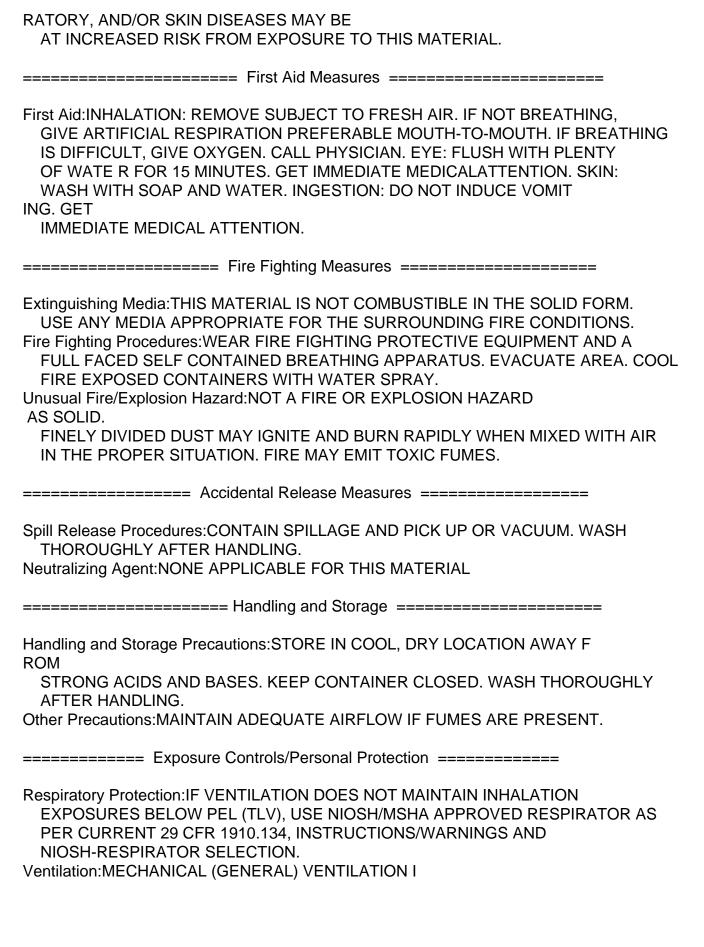
Health Hazards Acute and Chronic:EYE CONTACT CAUSES MILD IRRITATION.
METAL PARTICLES CAN INJURE EYE TISSUE. MOLTEN METAL CAN BURN THE
SKIN. INHALATION OF COPPER FUMES MAY CAUSE METAL FUME FEVER,
NAUSEA, NOSE AND THROAT IRRITATION. IN GESTION SYMPTOMS SIMILAR TO
INHALATION ALTHOUGH THESE METALS ARE POORLY ABSORBED THROUGH THE
GASTROINTESTINAL TRACT.

Explanation of Carcino

genicity: 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 RESPI



S 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 AND WATER AFTER USE. USE OF BRAZING FLUX MAY POSE ADDITIONAL HAZARDS. REFER TO FLUX MSDS FOR ADDITIONAL PRECAUSTIONS. ======== Physical/Chemical Properties ============ 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 and Reactivity Data ========== Stability Indicator/Materials to Avoid:YES STRONG OXIDIZERS, STRONG ACIDS AND BASES , 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. ======= Disposal Considerations ============ 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.

Waste Disposal Methods: THE PRODUCT, IF DISPOSED OF BY ITSELF, IS A

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