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ENGLEHARD CORP. ENGINEERED MATERIALS DIV. -- SILVER-COPPER-ZINC-CADMIUM-NICKEL BRAZING A -- 3439-00-262-4192

Product ID:SILVER-COPPER-ZINC-CADMIUM-NICKEL BRAZING A

MSDS Date:11/16/1990

FSC:3439

NIIN:00-262-4192 MSDS Number: BJXXF === 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: CADMIUM (SARA III)

CAS:7440-43-9

RTECS #:EU9800000 Fraction by Wt: 16.0%

Other REC Limits: NONE SPECIFIED

OSHA PEL:SEE 1910.1027

ACGIH TLV:0.01 MG/M3 DUST;9394

EPA Rpt Qty:

10 LBS

DOT Rpt Qty:10 LBS

Ingred Name: COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000 Fraction by Wt: 15.5%

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: 50.0%

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: NICKEL (SARA III)

CAS:7440-02-0 RTECS #:QR 5950000

Fraction by Wt: 3.0%

Other REC Limits: NONE SPECIFIED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name: ZINC (SARA III)

CAS:7440-66-6

RTECS #:ZG8600000 Fraction by Wt: 15.5%

Other REC Limits: NONE SPECIFIED

OSHA PEL:10 MG ZNO/M3

ACGIH TLV:10 MG ZNO/M3; 9192

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

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

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

Heal

- th Hazards Acute and Chronic:EYE CONTACT CAUSES MILD IRRITATION.
 METAL PARTICLES CAN INJURE EYE TISSUE. MOLTEN METAL CAN BURN THE
 SKIN. INHALATION OF CADMIUM FUMES MAY CAUSE MODERATE TO SEVERE
 RESPIRATORY IRRITATION. SEVERE EXPOS URE MAY CAUSE HEADACHE,
 NAUSEA, PNEUMONITIS AND PULMONARY EDEMA, ETC. INGESTION SYMPTOMS
 SIMILAR TO INHALATION.(SEE MSDS
- Explanation of Carcinogenicity: CADMIUM GP 2 CARCINOGEN-IARC, GP 2 NTP. NICKEL GP1 CARCINOGEN-IARC, GP 2 NTP.

Effects of Overe

- xposure:EMPHYSEMA, LIVER AND KIDNEY DAMAGE, WEIGHT LOSS, IRRITABILITY, ULCERATION OF THE NASAL SEPTUM AND DISCOLORATION OF THE TEETH. DISCOLORATION OF THE SKIN AND EYES CALLED ARGYRIA.
- Medical Cond Aggravated by Exposure:PERSONS WITH IMPAIRED RESPIRATORY FUNCTION OR PRE-EXISTING RESPIRATORY, BLOOD AND/OR SKIN DISEASES AND PERSONS WITH A HISTORY OF ASTHMA OR ALLERGIES MAY BE AT INCREASED RISK FROM EXPOSURE.

| | First Aid Measures | |
|-----|--------------------|--|
| === | | |

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 VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

========= Fire Fighting Measures =============

Extinguishing Media:THIS MATERIAL IS NOT CO MBUSTIBLE 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 HAZARD AS SOLID. FINELY DIVIDED DUST MAY IGNITE AND BURN RAPIDLY WHEN MIXED WITH AIR IN THE PROPER SITUATION. FIRE MAY EMIT TOXIC FUMES.

| == Accidental Release Measures ========== |
|---|
| Spill Release Procedures:CONTAIN SPILLAGE AND PICK UP OR VACUUM. WASH THOROUGHLY AFTER HANDLING. |
| Neutralizing Agent:NONE APPLICABLE FOR THIS MATERIAL |
| =========== Handling and Storage ============ |
| 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. |
| ====== Exposure Controls/Personal Protection ======== |
| 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 SAFE TY 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/Ch |
| emical Properties ========== |
| HCC:N1 Melt/Freeze Pt:M.P/F.P Text:1170F,632C |
| Spec Gravity:9.49 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, |
|---|
| ZINC, NICKEL AND CADMIUM WHEN HEATED ABOVE THE MELTING POINT OF |
| 1170 F. |

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

Waste Disposal Methods: THE PRODUCT, IF DISPOSED OF BY ITSELF, IS A HAZARDOUS WASTE UNDER THE EPA HAZARDOUS WASTE REGS. BECAUSE OF EXTRACTABLE CADMIUM AND SILVER. WASTE MIXTURES CONTAINING THIS PRODUCT SHOULD BE TESTED BY TC LP METHODOLOGY TO DERTERMINE WASTE **CLAS** SIFICATION.

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cular situation.