

ENGELHARD CORPORATION/ENGINEERED MATERIALS DIV. -- SE -- 3439-00-224-3573

===== Product Identification =====

Product ID:SE

MSDS Date:02/01/1989

FSC:3439

NIIN:00-224-3573

MSDS Number: BDKKJ

=== Responsible Party ===

Company Name:ENGELHARD CORPORATION/ENGINEERED MATERIALS DIV.

Address:ROUTE 152

City:PLAINVILLE

State:MA

ZIP:02762

Info Phone Num:508-695-7811

Emergency Phone Num:508-695-7811

CAGE:2303

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=== 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

Company Name:ENGELHARD CORPORATION

Address:29001 SOLON ROAD

City:SOLON

State:OH

ZIP:44139

Country:US

Phone:216-292-9200

CAGE:23036

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

Ingred Name:SILVER (SARA III)

CAS:7440-22-4

RTECS #:VW3500000

Fraction by Wt: 45%

OSHA PEL:0.01 MG/M3

ACGIH TLV:0.1 MG/M3; 9192

EPA R

pt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:COPPER (SARA III)  
CAS:7440-50-8  
RTECS #:GL5325000  
Fraction by Wt: 30%  
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:ZINC (SARA III)  
CAS:7440-66-6  
RTECS #:ZG8600000  
Fraction by Wt: 25%  
OSHA PEL:10 MG ZNO/M3  
ACGIH TLV:10 MG ZNO/M3; 9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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

Routes of Entry: Inhalation:YES Skin:N  
O Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:FUMES ARE HARMFUL IF INHALED OR  
ABSORBED THROUGH SKIN.MAY CAUSE IRRITATION. INFLAMMATION OF  
RESPIRATORY TRACT & LUNG TISSUE CAUSING PULMONARY  
EDEMA,BRONCHITIS,PNEUMONITIS;KIDNEY DAMAGE & EMPHYSEMA. AC UTE  
OVEREXPOSURE CAN BE FATAL.  
Effects of Overexposure:INGESTION & INHALATION MAY CAUSE  
VOMITING,DIARRHEA,HEADACHE,DIZZINESS,CHEST PAINS,BREATHLESSNESS.  
PROLONGED EXPOSURE C  
AN LEAD TO GREYISH PIGMENTATION OF SKIN CAUSED  
BY SILVER.  
Medical Cond Aggravated by Exposure:INDIVIDUALS WITH IMPAIRED PULMONARY  
FUNCTIONS.

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===== First Aid Measures =====

First Aid:IF INHALED REMOVE TO FRESH AIR. IF NOT BREATHING GIVE CPR. IF  
BREATHING IS DIFFICULT GIVE OXYGEN. CALL A DOCTOR.

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

Extinguishing Media:APPROPRIATE FOR SURROUNDING AREA.  
Fire Fighting Procedures:WEA

R SCBA.

Unusual Fire/Explosion Hazard:AT HIGH TEMPERATURES & CONTINUOUS HEATING  
COULD PRODUCE METAL VAPORS.

===== Accidental Release Measures =====

Spill Release Procedures:NO PROBLEMS ANTICIPATED,COLLECT CLEAN SCRAP  
FOR REUSE OR RECYCLING.

===== Handling and Storage =====

Other Precautions:MAINTAIN ADEQUATE AIR FLOW IF FUMES ARE PRESENT.

===== Exposure Controls/Personal Protection =====

Respiratory Pr

tection:NIOSH APPROVED RESPIRATOR FOR METAL FUMES IN

CONFINED SPACES OR WHERE VENTILATION IS NOT ADEQUATE.

Ventilation:LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION.

Protective Gloves:WELDER'S GLOVES

Eye Protection:SAFETY GLASSES

Other Protective Equipment:WEAR NON-FLAMMABLE PROTECTIVE CLOTHING.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

TRAIN WELDER TO KEEP HIS HEAD OUT OF THE FUMES.

===== Physical/Chemical Properties =====

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HCC:N1

Melt/Freeze Pt:M.P/F.P Text:1225F/663C

Spec Gravity:9.11

Solubility in Water:INSOLUBLE

Appearance and Odor:METALLIC,WIRE. NO ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS & BASES.

Stability Condition to Avoid:AVOID OVERHEATING TO MINIMIZE

VAPORIZATION.

Hazardous Decomposition Products:TOXIC FUMES

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

Waste Disposal Methods

:SCRAP MATERIAL MAY BE CONTAMINATED & MAY REQUIRE  
SPECIAL DISPOSAL METHOD. DISPOSE OF IAW FEDERAL, STATE & LOCAL  
REGULATIONS.

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