

ENGLEHARD CORP. SPECIALTY METALS DIV. -- SILVALOY A-45 -- 3439-00-262-4180
===== Product Identification =====

Product ID:SILVALOY A-45
MSDS Date:03/30/1992
FSC:3439
NIIN:00-262-4180
MSDS Number: BWCBQ
=== Responsible Party ===
Company Name:ENGLEHARD CORP. SPECIALTY METALS DIV.
Address:ROUTE 152
City:PLAINVILLE
State:MA
ZIP:02762
Country:US
Info Phone Num:508-695-7811
Emergency Phone Num:508-695-78
11/800-424-9300(CHEMTREC)
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: 30%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2 MG/M3 FUME; 9394
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Na

me:SILVER (SARA III)
CAS:7440-22-4
RTECS #:VW3500000
Fraction by Wt: 45%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.01 MG/M3
ACGIH TLV:0.1 MG/M3; 9394
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ZINC (SARA III) AS ZINC OXIDE.
CAS:7440-66-6
RTECS #:ZG8600000
Fraction by Wt: 25%
Other REC Limits:NONE RECOMMENDED
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:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYE/SKIN/RESP TRACT

IRRIT.PROLON/REPEAT CONTACT W/DUST MAY RESULT IN
ARGYRIA(DISCOLORATION)OF EYES/SKIN/RESP

TRACT.EYE/SKIN:IRRIT.INHAL:RESP TRACT IRRIT.OVEREXPO MAY CAUSE
METAL FUME FEVER-SYMPTOMS BE GIN 4-12 HRS AFT SUFFICIENT EXPO &
SYMDROME RUNS 24-48HRS.INGEST:MAY CAUSE COPPER POISONING.ONLY APPLY
IF DUST/FUME FORM

Explanation of Carcinogenicity:PER MSDS:CARCINOGENICITY:NTP/IARC/OSHA
NO.

E

Effects of Overexposure:SYMPTOMS OF METAL FUME FEVER:METALLIC TASTE,
DRYNESS & IRRIT OF THROAT, COUGH & SHORTNESS OF BREATH MAY OCCUR
ALONG WITH FATIGUE, MUSCLE & JOINT PAIN, FEVER & CHILLIS.

Medical Cond Aggravated by Exposure:MAY AGGRAVATE EXISTING RESPIRATAORY
&/OR SKIN AILMENTS. INDIVIDUALS WITH WILSON'S DISEASE ARE
@INCREASED RISK OF COPPER POISONING.

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

First Aid:SKIN/EYE:FLUSH W/PLENTY OF WATER. IF IRRIT DE

VELOPS CALL

PHYSICIAN. INHAL:IF EXPO TO EXCESSIVE LEVELS OF METAL FUMES REMOVE TO FRESH AIR. SEEK MED ATTN. INGEST:PROCEDURES NORMALLY NOT NEEDED. IF LG QU ANTITIES ARE INGESTED SEEK MED ADVICE.

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

Extinguishing Media:USE CARBON DIOXIDE, CHEMICAL FOAM OR DRY CHEMICAL. USE ANY MEASN FOR EXTINGUISHING SURROUNDING FIRE.

Fire Fighting Procedures:WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.

Unusual F

ire/Explosion Hazard:NOT FIRE/EXPLO HAZ IN SOLID FORM.FINELY DIVIDED DUST MAY IGNITE/BURN RAPIDLY WHEN MIXED W/AIR IN PROPER PROPORTIONS.TOXIC METAL FUMES RELEASE FROM FIRE.

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

Spill Release Procedures:CONTAIN SPILL.SCOOPUP/VACUUM.NOTIFICATION OF NAT RESP CNTR 800-424-8802 MAY BE REQUIRED.REFER TO EPA/DOT/APPLICABLE STATE/LOC REGS.RECOMMENDED USER ESTABLISH SPCC.INCLUDE PROCED TO STORAGE/CNTRL/CLEAN UP REUSE/D ISPOSAL OF

WASTE.ADDN PPE SHOULD BE USED

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:STORE IN COOL, DRY LOCATION AWAY FROM INCOMPATIBLE MATERIALS. AVOID CONTACT WITH ANY DUSTS/MISTS/FUMES RESULTING FROM USE OF PRODUCT.

Other Precautions:USE ONLY WITH ADEQUATE VENTILATION. DO NOT EAT/DRINK/SMOKE IN WORK AREA.

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

Respirator

y Protection:NIOSH/MSHA APPROVED DUST RESPIRATOR IS RECOMMENDED IF DUST IS GENERATED.

Ventilation:GENERAL;LOC EXHA VENTILATION AS NECESSARY TO CONTROL ANY AIR CONTAMIN TO W/IN TLVS DURING USE OF PRODUCT.

Protective Gloves:AS NECESSARY.

Eye Protection:SAFETY GLASSES W/SIDE SHILED.

Other Protective Equipment:REFER TO ANSI/ASC Z49.1-88(SAF IN WELD/CUT)FROM AMER WELDING SOC FOR FURTHER INFO OF SELECTION TO PERSONAL PROT EQPMT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

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

HCC:N1

Spec Gravity:9.10

Solubility in Water:INSOLUBLE.

Appearance and Odor:METALLIC WIRE,ROD OR STRIP, ODORLESS.

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS & BASES,OXIDIZING AGENTS,ACETYLENE,AMMONIA,H2O2,MG
METAL,AMMONIUM NITRATE,HYDROGEN SULFIDE,CHLORINATED RUBB

Stability Condition to Avoid:NONE EXPECTED.

Ha

azardous Decomposition Products:TOXIC METAL OXIDES ARE EMITTED WHEN
HEATED ABOVE MELTING PT.AMT OF FUME EVOLVE INCREASES AS TEMP RISES.

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

Waste Disposal Methods:EPA WASTE:D011.CONTAINS SILVER/SILVER
CMPDS.DISPOSAL MAY BE REG UNDER EPA HAZ WASTE REGS(D011).BEFORE
DIPSOAL PROD/MIXTURES CONTAINING PROD SHOULD BE TESTED FOR TC UNDE
EPA REGSTCLP,40CFR261.CONSULT W /STATE/LOC/RED REGS.SOME WASTE ARE
RECYCLE.

Discl

claimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.