

ENGELHARD CORP -- TIN/ANTIMONY (95/5) SOLDER ALLOY, EI-29777 -- 3439-01-324-0891

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

Product ID:TIN/ANTIMONY (95/5) SOLDER ALLOY, EI-29777

MSDS Date:10/18/1991

FSC:3439

NIIN:01-324-0891

MSDS Number: BZMXS

=== Responsible Party ===

Company Name:ENGELHARD CORP

Address:235 KILVERT ST

City:WARWICK

State:RI

ZIP:02886

Country:US

Info Phone Num:401-739-9550

Emergency Phone

Num:800-424-9300(CHEMTREC)

CAGE:ENGEL

=== 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 CORP

Address:29001 SOLON RD

City:SOLON

State:OH

ZIP:44139

Country:US

Phone:216-292-9200

CAGE:ENGEL

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

Ingred Name:TIN

CAS:7440-31-5

RTECS #:XP7320000

Fraction by Wt: 95%

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3

In

gred Name:ANTIMONY (SARA 313) (CERCLA)
CAS:7440-36-0
RTECS #:CC4025000
Fraction by Wt: 5%
OSHA PEL:0.5 MG/M3
ACGIH TLV:0.5 MG (SB)/M3
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:SPILL PROC:PLAN SHOULD INCLUDE PROC APPLIC TO PROPER STOR,
CTL & CLEAN-UP OF SPILLS, INCLUDING REUSE/DISP AS (ING 4)
RTECS #:9999999ZZ

Ingred Name:ING 3:APPROP (SEE WASTE DISP METH). NOTE:IN EVENT OF
ACCIDENTAL REL OF MATL, SPILL PROC SHOULD BE FOLLOWED. (ING 5)
RTECS #:9999999ZZ

Ingred Name:ING 4:AD
DNLY PROPER EXPOS CTLS & PERS PROT EQUIP SHOULD BE
USED (SEE CTL MEASURES) & DISP OF MATL SHOULD BE IN (ING 6)
RTECS #:9999999ZZ

Ingred Name:ING 5:ACCORDANCE WITH WASTE DISPOSAL METHOD.
RTECS #:9999999ZZ

Ingred Name:WASTE DISP METH:TYPE OF DISP SELECTED. NOTE:CHEM ADDNS,
PROCESSING/OTHERWISE ALTERING MATL MAY MAKE WASTE (ING 8)
RTECS #:9999999ZZ

Ingred Name:ING 7:MANAGEMENT INFO PRESENTED INCOMPLETE,
INACCURATE/OTHERWISE INAPPROP. AS LOC REGS MAY VARY; ALL WASTE MUST
(ING 9)

R
TECS #:9999999ZZ

Ingred Name:ING 8:BE DISPOSED/RECYCLED/RECLAIMED IN ACCORDANCE WITH
FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.
RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP:(SFTY IN WELDING & CUTTING) PUBLISHED BY
AMERICAN WELDING SOCIETY FOR FURTHER INFO OF SELECTION(ING 11)
RTECS #:9999999ZZ

Ingred Name:ING 10:OF PERSONAL PROTECTIVE EQUIPMENT.
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED

BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYE CONTACT:MAY CAUSE IRRITATION. SKIN CONTACT:MAY CAUSE IRRITATION. INHALATION:HARMFUL. CAN LEAD TO RESPIRATORY TRACT IRRITATION IF EXPOSURE IS PROLONGED OR EXCESSIVE. INGESTION:IS HARMFUL. CAUSES IRRITATION AND MAY CAUSE SYSTEMIC TOXICITY. NOTE:HLTH EFTS ONLY APPLY IF DUST/FUME IS FORMED. CHRONIC: (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HLTH HAZS:PRLNGD/RPTD INHAL MAY CAUSE LUNG DMG &/OR CNS DISTURBS. INHAL MAY CAUSE BENIGN PNEUMOCONIOSIS. PRLNGD OVEREXP TO ANTIMONY MAY LEAD TO LIVER, KIDNEY & CNS DMG. NOTE:HAZS OF ALL INGS OF PROD A RE NOT KNOWN, HOWEVER EXPOS IS NOT EXPECTED AS PROD IS IN SOLID FORM. TLV & POTNTL HLTH EFTS STATEMENTS ARE (SUPP DATA)

Medical Cond Aggravated by Exposure:MAY AGGRAVATE EXISTING MED CNDTNS SUCH AS RESP &/OR KIDNEY & LIVER AILMENTS. PERS W/PRE-EXISTING DISEASES OF CNS MAY HAVE INCR SUSCEPTIBILITY TO TOX OF EXCESSIVE EXPOSURE.

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

First Aid:EYE:FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION DEVELOPS, CALL A PHYSICIAN. SKIN:FLUSH WITH PLENTY OF WATER. IF IRRITATION PERSISTS, CALL A PHYSICIAN. INHALATION:IF EXPOSED TO EXCESSIVE LEVELS OF METAL FUMES, REMOVE TO FRESH AIR AND SEEK MEDICAL ATTENTION. INGESTION:PROCEDURES NORMALLY NOT NEEDED. IF LARGE QUANTITIES ARE INGESTED, SEEK MEDICAL ADVICE.

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

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

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:NOT FIRE/EXPLO HAZ IN SOLID FORM. FINELY DIVIDED DUST MAY IGNITE & BURN RAP

IDLY WHEN MIXED W/AIR IN PROPER
PROPORTIONS. TOX METAL FUMES MAY BE REL IN (SUP DAT)

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

Spill Release Procedures: CNTN SPILLAGE & SCOOP UP/VACUUM. NOTIFICATION
OF NRC (800-424-8802) MAY BE REQ. REFER TO EPA, DOT & APPLIC STATE
& LOC REGS FOR CURRENT RESPONSE INFO. IT IS REC THAT EACH USER
ESTABLISH SPILL PREVENTI ON, CTL & COUNTERMEASURE PLAN (SPCC).
SUCH(ING 3)

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER

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

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

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

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

Respiratory Protection: A NIOSH/MSHA APPROVED RESPIRATOR AS NECESSARY.

Ventilation: GEN; LOC EXHST VENT AS NEC TO CTL ANY AIR CONTAMS TO W/IN
THEIR PELS/TLVS DURING USE OF THIS PROD.

Protective Gloves: IMPERVIOUS GLOVES .

Eye Protection: ANSI APPROVED CHEM WORKERS GOGGS .

Other Protective Equipment: ANSI APPRVD EMER EYEWASH & DELUGE SHOWER .
BODY PROT AS NEC TO PVNT SKIN CONT. REFER TO ANSI/ASC Z49.1-88 (ING
10)

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

BP: >2516F, >1380C. SPEC GRAV: 5.77-5.84 (H*20=1). EXPLO HAZS

: FIRE
SITUATION. EFTS OF OVEREXP: LISTED FOR INGS OF PROD FOR WHICH DATA
IS AVAIL IN SOLID FORM. IF DUST, POWDER/FUME IS GENERATED THEN TLVS
& EFTS OF OVEREXP STATEMENTS WILL BE APPLIC.

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

Boiling Pt: B.P. Text: SUPP DATA

Melt/Freeze Pt: M.P/F.P Text: >450F, >232C

Spec Gravity: SUPP DATA

Solubility in Water: INSOLUBLE

Appearance and Odor: SILVER TO GREY METALLIC SOLID. ODORLESS.

===== Stability and Reactivity D

ata =====

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZERS, ACIDS AND BASES, CHLORINE, TURPENTINE, NASCENT HYDROGEN, REDUCING AGENTS, HALOGENS.

Stability Condition to Avoid: NONE EXPECTED.

Hazardous Decomposition Products: TOXIC METAL OXIDES ARE EMITTED WHEN HEATED ABOVE THE MELTING POINT. AMOUNT OF FUME EVOLVED INCREASES AS TEMP RISES.

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

Waste Disposal Methods: FED, STATE & LOC DISP LAWS & REGS
WILL DETERM

PROPER WASTE DISP/RECYCLING/RECLAMATION PROC. ALL WASTE MATLS SHOULD BE REVIEWED DETERM APPLIC HAZS (TESTING MAY BE NEC). DISP REQS ARE DEPENDENT ON HAZ C LASSIFICATION & WILL VARY BY LOCATION & (ING 7)

Disclaimer (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.