

DEANCO INC -- SOLDER ALLOYS OF LEAD,TIN,SILVER,BISMUTH,AN -- 3439-00-105-9134

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

Product ID:SOLDER ALLOYS OF LEAD,TIN,SILVER,BISMUTH,AN

MSDS Date:03/13/1990

FSC:3439

NIIN:00-105-9134

MSDS Number: BPHFS

=== Responsible Party ===

Company Name:DEANCO INC

Address:7933 QUEENAIR DR

City:GAITHERSBURG

State:MD

ZIP:20879-4137

Country:US

Info Phone Num:301-948-5444

Emergency

Phone Num:301-948-5444(CHEMTREC 800-424-9300)

CAGE:9K946

=== Contractor Identification ===

Company Name:DEANCO INC

Address:7933 QUEENAIR DR

Box:City:GAITHERSBURG

State:MD

ZIP:20879-4137

Country:US

Phone:301-948-5444

CAGE:9K946

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

Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.05 MG/M3;1910.1025

ACGIH TLV:0.15 MG/M3;DUST 9293

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Nam

e:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9293

Ingred Name:SILVER (SARA III)  
CAS:7440-22-4  
RTECS #:VW3500000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.01 MG/M3  
ACGIH TLV:0.1 MG/M3; 9293  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:BISMUTH  
CAS:7440-69-9  
RTECS #:EB2600000  
Other REC Limits:NONE RECOMMENDED

Ingred Name:ANTIMONY (SARA III)  
CAS:7440-36-0  
RTECS #:CC4025000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.5 MG/M3  
ACG  
IH TLV:0.5 MG SB/M3; 9293  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:INDIUM  
CAS:7440-74-6  
RTECS #:NL1050000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.1 MG/M3; 9293

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: INHALATION OF DUST OR VAPOR  
FROM SOLDERING OR INGESTION MAY CAUSE DAMAGE TO

NERVOUS SYSTEM,  
INTESTINAL, URINARY, REPRODUCTIVE, AND BLOOD-FORMING SYSTEMS.  
CHRONIC: LEAD CAN CAUSE INJURY TO DEVELOPING FETUS' AND  
REPRODUCTIVE SYSTEMS. WOMEN OF CHILD-BEARING AGE SHOULD AVOID  
EXPOSURE TO LEAD AND LEAD COMPOUNDS.

Explanation of Carcinogenicity:LEAD AND SOME INORGANIC LEAD COMPOUNDS  
ARE LISTED BY IARC AS 2B (POSSIBLE) CARCINOGENS.

Effects of Overexposure:INHALED/INGESTED: ANEMIA, INSOMNIA, WEAKNESS,  
CONSTIPATION, NAUSEA, AND ABDOMINAL PAIN. SKIN: RASH,  
ITCHING,  
DISCOLORATION OF SKIN AND EYES. EYES: REDNESS, DISCOMFORT. OTHER:  
FOUL-BREATH, BLUE-BLACK LINE IN GUMS, MUSCULAR PAIN, IRRITABILITY.

Medical Cond Aggravated by Exposure:DISEASES OF THE BLOOD-FORMING  
ORGANS, KIDNEYS, NERVOUS AND POSSIBLY REPRODUCTIVE SYSTEMS.

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

First Aid:INHALED: REMOVE TO FRESH AIR. SEE DOCTOR. EYES: FLUSH WITH  
LOTS OF WATER. SEE DOCTOR. SKIN: WASH WITH SOAP AND WATER. IF  
BURNED,  
COOL WITH WATER AND GET MEDICAL ATTENTION. INGESTED:  
CONTACT POISON CONTROL CENTER IMMEDIATELY. GET IMMEDIATE MEDICAL  
ATTENTION.

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

Flash Point:NONE

Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND  
BUNKER GEAR.

Unusual Fire/Explosion Hazard:MODERATE EXPLOSION RISK IF HIGH  
CONCENTRATION OF METAL DUST EXISTS.WHEN HEATED TO HIGH TEMPERA  
TURES  
LEAD EMITS HIGHLY TOXIC FUMES.

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

Spill Release Procedures:WEAR PROPER PROTECTIVE CLOTHING. VACUUM OR MOP  
SPILL AREA. DO NOT USE DRY SWEEPING OR COMPRESSED AIR CLEANING  
SYSTEMS. PLACE SCRAP OR WASTE IN A CONTAINER FOR LATER DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:FOOD AND DRINK SHOULD NOT B

E CONSUMED

OR TOBACCO PRODUCTS USED NOR COSMETICS APPLIED IN AREAS WHERE  
SOLDER MAY BE USED.

Other Precautions:SINCE EMPTY CONTAINERS MAY RETAIN RESIDUES ALL  
LABELLED HAZARD PRECAUTIONS MUST BE OBSERVED. FOR INDUSTRIAL USE  
ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

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

Respiratory Protection:IF TLV/PEL EXCEEDED; USE NIOSH/MSHA APPROVED  
RESPIRATOR WITH PROPER CARTRIDGE FOR LEAD DUST. USE IN AC  
CORDANCE  
WITH 29 CFR 1910.134.

Ventilation:USE ADEQUATE MECHANICAL/LOCAL EXHAUST VENTILATION.

Protective Gloves:REGULAR WORK GLOVES

Eye Protection:SAFETY GLASSES

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING,  
DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

FOR OCCUPATIONAL EXPOSURE REQUIREMENTS SEE 29 CFR 1910.1025 (LEAD  
STANDARD).

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

HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:SILVER-GRAY METAL, ODORLESS; VARIOUS SHAPES AND  
SIZES

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, STRONG MINERAL ACIDS, HYDROGEN PEROXIDE  
(>52%).

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:LEAD OXIDE AND ANTIMONY OXIDE FUMES  
MAY BE EVOLVED AT TEMPERATURES GREATER THAN 1000F.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND  
FEDERAL REGULATIONS.

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.