

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

Product ID:63SN/37PB, SOLDER, LEAD-TIN ALLOY

MSDS Date:04/28/1998

FSC:3439

NIIN:00-153-4280

Status Code:A

MSDS Number: CLDXP

=== Responsible Party ===

Company Name:R & D METALS AND CHEMICALS INC

Address:201 PERIMETER PK SUITE C

Box:22533

City:KNOXVILLE

State:TN

ZIP:37922-2233

Country:US

Info Phone Num:865-531-6065/800-645-7476

Emergency

Phone Num:865-531-6065

CAGE:56406

=== Contractor Identification ===

Company Name:R & D METALS & CHEMICALS, INC

Address:201C PERIMETER PARK

Box:22533

City:KNOXVILLE

State:TN

ZIP:37922-2233

Country:US

Phone:423-531-6065 / FAX: 423-531-2044

Contract Num:SP0490-96-M-Z997

CAGE:56406

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

Ingred Name:TIN

CAS:7440-31-5

RTECS #:XP7320000

= Wt:63.

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3

Ingred Name:LEAD

CAS:7439-92-1

RTECS #:OF7525000

= Wt:37.

OSHA PEL:.05 MG/M3
ACGIH TLV:0.15 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Health Hazards Acute and Chronic:TIN: ELEMENTAL TIN IS NOT GENERALLY
CONSIDERED TO BE TOXIC. LEAD: CHRONIC EXPOSURE TO HIGH LEVELS OF
AIRBORNE OR INGESTED LEAD MAY RESULT IN ANEMIA, INSOMNIA, WEAKNESS,
CONSTIPATION, NAUSEA, ABDOMINAL CRAMPS. NOTE: IT IS UNLIKELY THAT
NORMAL EXPOSUR
E TO THIS SOLDER, WHILE USING APPROPRIATE PROTECTIVE
EQUIPMENT, WOULD RESULT IN ILLNESS.
Effects of Overexposure:FLU-LIKE SYMPTOMS (NAUSEA, CONSTIPATION,
HEADACHE, DIZZINESS)-SELF-LIMITING. USUALLY DISAPPEAR WITHIN 24
HOURS.

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

First Aid:INGESTION: DRINK LARGE QUANTITIES OF WATER-INDUCE VOMITING.
CALL A PHYSICIAN AT ONCE, ADVISE OF CHEMICAL COMPOSITION. SKIN:
WASH THOROUGHLY WITH WATER TO REMOVE ALL RESIDUE.
IF A RASH
DEVELOPS, CALL A PHYSICIAN. INHALATION: TERMINATE EXPOSURE AND
REMOVE TO FRESH AIR. CALL PHYSICIAN, ADVISE OF CHEMICAL
COMPOSITION. EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES TO
REMOVE IRRITANT. CONSULT A PHYSICIAN.

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

Extinguishing Media:CO2 OR DRY CHEMICAL EXTINGUISHER. DO NOT USE WATER
ON MOLTEN METAL. LARGE FIRES MAY BE FLOODED WITH WATER FROM A
DISTANCE.
Fire Fighting Procedures:USE
NIOSH/MSHA-APPROVED SELF-CONTAINED
BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING IF INVOLVED IN
FIRE.
Unusual Fire/Explosion Hazard:FINELY DIVIDED DUST MAY FORM EXPLOSIVE
MIXTURE WITH AIR. NEVER DROP WATER OR LIQUIDS INTO MOLTEN SOLDER.
DO NOT PLUNGE DAMP OR WET SOLDER BARS/PIECES INTO MOLTEN SOLDER.

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

Spill Release Procedures:SOLDER IS SOLID/RECYCLABLE. VACUUMING IS
RECOMMENDED FOR ACCUMULATED METAL DUST

FROM SAW/GRINDING
OPERATIONS.

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

Handling and Storage Precautions: DRY STORAGE; AMBIENT TEMPERATURE. WET OR MOIST INGOT(S) WILL PRESENT AN EXPLOSION HAZARD WHEN SUBMERGED IN MOLTEN SOLDER. ALWAYS PREHEAT INGOT BEFORE CHARGING INTO FURNACE. AVOID FIRE RISK.

Other Precautions: GOOD HOUSEKEEPING PROCEDURES SHOULD BE MAINTAINED. PERSONNEL SHOULD WASH THOROUGHLY BEFORE SMOKING OR EATING FOOD AND DRINK SHOULD NOT BE CONSUMED OR TOBACCO PRODUCTS USED. NOR COSMETICS APPLIED IN AREAS WHERE EXPOSURES EXIST.

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

Respiratory Protection: USE NIOSH APPROVED BREATHING APPARATUS TO PREVENT EXPOSURE TO DUSTS AND FUMES.

Ventilation: LOCAL EXHAUST, MECHANICAL, SPECIAL: CONFORM WITH YOUR REGULATORY STATUTES.

Protective Gloves: FOR HIGH TEMPERATURE APPLICATIONS TO PREVENT BURNS.

Eye Protection: SAFETY GLASSES OR WELDING GOGGLES

Other Protective Equipment: STANDARD PROTECTIVE EQUIPMENT USED IN SOLDERING (APPLICATION) OPERATIONS. CONFORM WITH ALL LOCAL, STATE, FEDERAL REGULATIONS.

Work Hygienic Practices: PERSONNEL SHOULD WASH THOROUGHLY BEFORE SMOKING OR EATING FOOD AND DRINK SHOULD NOT BE CONSUMED OR TOBACCO PRODUCTS USED, NOR COSMETICS APPLIED IN AREAS WHERE EXPOSURES EXIST.

Supplemental Safety and Health

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

HCC: N1

Boiling Pt: B.P. Text: NA1F

Melt/Freeze

Pt: =182.8C, 361.F

Spec Gravity: .3178

Solubility in Water: 0 (SOLID)

Appearance and Odor: SILVER METAL, ODORLESS/VARIOUS SHAPES AND SIZES.

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

Stability Indicator/Materials to Avoid: YES

STRONG ACIDS, STRONG ALKALIS.

Stability Condition to Avoid: NONE

Hazardous Decomposition Products: NONE

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

Waste Disposal Methods: DISPO

SE OF ACCORDING TO FEDERAL, STATE, LOCAL
AND OSHA REGULATIONS.

===== MSDS Transport Information =====

Transport Information:NOT REGULATED FOR TRANSPORTATION.

===== Regulatory Information =====

SARA Title III Information:THIS PRODUCT CONTAINS THE FOLLOWING TOXIC
CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF EPCRA OF 1986:
37% LEAD (7439-92-1)

===== Other Information =====

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particular situation.
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