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Product ID:TIN LEAD ANTIMONY ALLOY: XM-200 CORE MSDS Date:05/01/1990 FSC:3439 NIIN:01-008-7580 **MSDS Number: BJKYH** === Responsible Party === Company Name: GARDINER SOLDER CO DIV GARDINER METAL CO Address:4820 SOUTH CAMPBELL AVENUE City:CHICAGO State:IL ZIP:60632-14 94 Country:US Info Phone Num:312-847-0100 Emergency Phone Num:312-847-0100 CAGE:84311 === Contractor Identification === Company Name: GARDINER SOLDER COMPANY DIV GARDINER METAL CO Address:4820 S CAMPBELL AVE Box:City:CHICAGO State:IL ZIP:60632-1494 Country:US Phone:312-847-0100 CHEMTREC AFTER HOURS CAGE:84311

Ingred Name:LEAD (SARA III) CAS:7439-92-1 RTECS #:OF7525000 Fraction by Wt: 37% Other REC Limits:NONE SPECIFIED OSHA PEL:0.05 MG/M3;1910.1025 ACGIH TLV:0.15 MG/M3;DUST 9192 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:TIN CAS:7440-31-5 RTECS #:XP7320000 Fraction by Wt: 63% Other REC Limits:NONE SPECIFIED OSHA PEL:2 MG/M3 ACGIH TLV:2 MG/M3; 9192 Ingred Name: ANTIMONY (SARA III) CAS:7440-36-0 RTECS #:CC4025000 Fraction by Wt: 5000 MG/KG (ROSIN) Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: MOLTEN SOLDER ALLOYS DO NOT PRODUCE SIGNIFICANT LEAD FUME BELOW 700F. EXPOSURE TO HIGH LEVELS OF AIRBORNE OR INGESTED LEAD MAY PRODUCE SYMPTOMS OF ANEMIA, INSOMINIA, WEAKNESS, CONSTIPATION, NAUSEA & ABDOMINAL PAIN. PROLONGED EXPOSURE MAY RESULT IN KIDNEY & NERVOUS SYSTEM INVOLVEMENT. PREGNANT WOMEN SHOULD AVOID LEAD. Explanation of Carcinogenicity:NOT LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN. Effects of Overexposure: LOSS OF APPETITE, METALLIC TASTE IN THE MOUTH, ANXIETY, CONSTIPATION, NAUSEA, PALLOR, EXCESSIVE TIREDNESS, WEAKNESS, INSOMNIA, HEADACHE, NERVOUS IRRITABILITY, MUSCLE AND JOINT SORENESS, TREMORS, DIZZI NESS, AND ABDOMINAL PAIN. WHEN

HEATED, FUMES MAY CAUSE EYE, SKIN & RESPIRATORY TRACT IRRITATION. SOLDER CAN CAUSE BURNS.

Medical Cond Aggravated by Exposure:DISEASES OF THE BLOOD-FORMING, NERVOUS, URINARY, RESPIRATORY AND REPRODUCTIVE SYSTEMS. EXPOSURE TO LEAD MAY RESULT IN INJURY TO A DEVELOPING FETUS.

======= First Aid Meas

First Aid:IF A PERSON BREATHES IN A LARGE AMOUNT OF ROSIN FUME, REMOVE FROM EXPOSURE. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN AND CALL A PHYSICIAN. IF LEAD HAS BEEN INGESTED, IMMEDIATELY CALL A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. FOR EYE BURNS, FLUSH IMMEDIATELY WITH COOL WATER AND OBTAIN MEDICAL AID. FOR SKIN BURNS, COOL WITH WATER AND OBTAIN MEDICAL AID.

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

Flash Point:NON FLAMMABLE Autoignition Temp:Autoignition Temp Text:NONE Extinguishing Media:USE DRY SAND OR DRY CHEMICAL. Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. Unusual Fire/Explosion Hazard:NONE

Spill Release Procedures:SOLID AT ROOM TEMPERATURE. IF IN MOLTEN STATE, ALLOW TO COOL AND SOLIDIFY AND THEN SCRAPE UP. VAC UUM UP SMALL PARTICLES. NEVER USE ANY METHOD WHICH WILL GENERATE DUST.

 Handling and Storage Precautions:NO SPECIAL REQUIREMENTS FOR STORAGE.
READ ALL CONTAINER LABELING. FOOD AND DRINK SHOULD NOT BE CONSUMED OR TOBACCO PRODUCTS USED WHERE SOLDER IS USED.
Other Precautions:AVOID CONTACT WITH FUMES AND DUST.

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

Respiratory Protection:USE NIOSH/MSHA AP PROVED RESPIRATOR FOR LEAD, IF

EXPOSURES EXCEED THE OSHA LIMIT. 0.03 MG/M3 - HALF MASK; 2.5 MG/M3 - FULL FACE MASK; 50 MG/M3 - SELF-SUSTAINED RESPIRATORY SUIT. Ventilation: USE ENOUGH VENTILATION (GENERAL/LOCAL) TO KEEP THE FUMES

FROM THE WORKERS BREATHING ZONE & BELOW PEL. HEPA FILTERS REQD. Protective Gloves:LEATHER GLOVES

Eye Protection: SAFETY GOGGLES OR FACE SHIELD

Other Protective Equipment: AS REQUIRED TO AVOID CONTACT.

Work Hygienic Practices: WASH THOROUGHLY BEFORE EATING OR SMO

KING. LAUNDER CONTAMINATIED CLOTHING BEFORE REUSE. FOLLOW GOOD HYGIENIC PRACTICES.

Supplemental Safety and Health EXPOSURE TO LEAD IS REGULATED BY OSHA 1910.1025

HCC:T4 Boiling Pt:B.P. Text:2516F,1380C Melt/Freeze Pt:M.P/F.P Text:361F,183C Vapor Pres:0 Spec Gravity:7.55-11.0 G/CC Solubility in Water:NEGLIGIBLE Appearance and Odor:SILVER GRAY SOLID Percent Volatiles by Volume:0

======== Stability and Reactiv

ity Data ================

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS Stability Condition to Avoid:NONE Hazardous Decomposition Products:THE SMOKE FROM A SOLDERING OPERATION MAY INCLUDE CARBON MONOXIDE, ABIETIC ACID, ALIPHATIC ALDEHYDES & DITERPENE ACIDS.

Waste Disposal Methods:RECLAIM ALLOY OR DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE & LOCAL LAWS AND REGULATIONS.

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