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Product ID:TIN/SILVER ALLOYS, SN 96 BS MSDS Date:01/04/1993 FSC:3439 NIIN:01-058-6797 MSDS Number: BQDNV === Responsible Party === Company Name: GARDINER SOLDER CO, DIV OF GARDINER METAL CO Address:4820 S CAMPBELL AVE City:CHICAGO State:IL ZIP:60632-1416 Country:US Info P hone Num:312-847-0100 Emergency Phone Num:312-847-0100/CHEMTREC 800-424-9300 CAGE:56244 === Contractor Identification === Company Name: GARDINER SOLDER CO, DIV OF GARDINER METAL CO Address:4820 S CAMPBELL AVE Box:City:CHICAGO State:IL ZIP:60632-1416 Country:US Phone:312-847-0100/800-424-9300(CHEMTREC) CAGE:56244 

Ingred Name:TIN CAS:7440-31-5 RTECS #:XP7320000 Fraction by Wt: 93 - 99% Other REC Limits:NONE RECOMMENDED OSHA PEL: ACGIH TLV:2 MG/M3; 9293 Ingred Name:SILVER (SARA III) CAS:7440-22-4 RTECS #:VW3500000 Fraction by Wt: 1 - 7% 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 Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: ACUTE AND CHRONIC- INHALATION OF DUST MAY CAUSE IRR ITATION. PROLONGED EXPOSURE CAN CAUSE PERMANENT RESPIRATORY DAMAGE. HEALTH STUDIES HAVE SHOWN THAT POTENTIAL HEALTH RISKS MAY VARY BY INDIVIDUAL. ALW AYS MINIMIZE EXPOSURE AS A PRECAUTION. Effects of Overexposure: INHALATION OF DUST MAY CAUSE IRRITATION. PROLONGED EXPOSURE CAN CAUSE PERMANENT RESPIRATORY DAMAGE. HEALTH STUDIES HAVE SHOWN THAT POTENTIAL HEALTH RISKS MAY VARY BY INDIVIDUAL. ALWAYS MINIMIZE EXPOSU RE AS A PRECAUTION. Medical Cond Aggravated by Exposure: PERSON S WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE. First Aid:CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS. INHALED: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER & FOLLOW RECOMMENDED TREATMENT. IN CASE OF BURNS, CALL PHYSICIAN. IF IN EY ES, FLUSH WITH WATER FOR 15 MINUTES. IF SKIN IS BURNED, TREAT FOR BURN. Flash Point:NONFLAMMABLE Extinguishing Media: DRY CHEMICAL, DO NOT USE WATER. Fire Fighting Procedures: WEAR SELF CONTAINED BREATHING APPARATUS ABOVE 1000C (1832F). Unusual Fire/Explosion Hazard: IF GENERATED, DUST IS EXPLOSIVE ABOVE 1100F. Spill Release Procedures: IF MATERIAL

2 MG/M3

IS RELEASED OR SPILLED, COLLECT AND USE. IF CONTAMINATED OR IN SMALL PARTICLES, VACUUM OR COLLECT MATERIAL. NEVER USE METHODS WHICH GENERATE DUST. Neutralizing Agent:NOT APPLICABLE.

Handling and Storage Precautions:STORAGE- STORE IN A DRY PLACE. Other Precautions:READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THE PRODUCT. AVOID BREATHING FUMES OR DUSTS.

Respiratory Protection: IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL(TLV), USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHILE WELDING IN CONFINED SPACE OR GENERAL WORK AREA.

Ventilation:LOCAL EXHAUST AT THE ARC.

Protective Gloves:WELDER'S GLOVES

Eye Protection: HELMET OR FACE SHIELD WITH FILTER LENS

Other Protective Equipment: WEAR HAND, HEAD AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATIO

N, SPARKS AND ELECTRICAL SHOCK.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

INSULATE FROM WORK AND GROUND. TRAIN THE WELDER NOT TO PERMIT ELECTRICALLY LIVE PARTS TO CONTACT SKIN OR CLOTHING OR GLOVES IF THEY ARE WET.

HCC:N1 Boiling Pt:B.P. Text:4010F,2210C Melt/Freeze Pt:M.P/F.P Text:48 6F,252C Vapor Pres:1 @ 1375C Spec Gravity:7.46 Solubility in Water:INSOLUBLE Appearance and Odor:GREY SOLID, ODORLESS

Stability Indicator/Materials to Avoid:YES STRONG ACIDS, STRONG OXIDIZING AGENTS Stability Condition to Avoid:NONE Hazardous Decomposition Products:TOXIC METAL FUMES ABOVE 1000C (1832F)

Waste Disposal Methods:NEVER DISPOSE IN TRASH. HOLD FOR

RECYCLING OR DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

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