GARDINER SOLDER CO, DIV OF GARDINER METAL CO -- TIN/SILVER ALLOY: X-45 CORE -- 3439-00-968-3370

Product ID:TIN/SILVER ALLOY: X-45 CORE MSDS Date:05/01/1990 FSC:3439 NIIN:00-968-3370 **MSDS Number: BQNRH** === 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 Phone Num:800-424-9300 Emergency Phone Num:312-847-0100 CAGE:56 244 === 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 Company Name: WHITE PLAINS ELECTRICAL SUPPLY CO Address:131 E MAIN STREET Box:City:ELMSFORD State:NY ZIP:10523-3319 Country:US Phone:914-592-9555 CAGE:05085

Ingred Name:TIN CAS:7440-31-5 RTECS #:XP7320 000 Fraction by Wt: 94-96% Other REC Limits:O.O3 MG/M3 OSHA PEL:2 MG/M3 ACGIH TLV:2 MG/M3; 9293

Ingred Name:SILVER (SARA III) CAS:7440-22-4 RTECS #:VW3500000 Fraction by Wt: 3.5-6% Other REC Limits:NONE SPECIFIED 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:ROSIN ACID CAS:8050-09-7 Fraction by Wt: 0.5-3% Other REC Limits:NONE SPECIFIED

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHALAATION OF DUCT MAY CAUSE IRRITATION. PROLONGED EXPOSURE CAN CAUSE PERMANENT RESPIRATORY DAMAGE. HEALTH STUDIES HAVE SHOWN THAT POTENTIAL HEALTH RISKS MAY VARY BY INDIVIDUAL. ALWAYS MINIMIZE EXPO SURE AS A PRECAUTION. Explanation of Carcinogenicity:FORMALDEHYDE IS LISTED AS A PROBABLE CARCINOGEN BY NTP,IARC, EPA,& IT IS REGULATED BY OSHA. Effects of Overexposure:METALLIC TAST E IN MOUTH. IRRITATION OF THE RESPIRATORY TRACT. Medical Cond Aggravated by Exposure:RESSPIRATORY & LUNG CONDITIONS.

First Aid:SKIN:FLUSH WITH WATER IMMEDIATELY. TREAT FOR BURNS, SEEK MEDICAL ATTENTION. EYE IRRITATION:FLUSH WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION. INHALATION:REMOVE TO FRESH AIR. SUPPORT RESPIRATION. GET MEDICAL HELP. INGESTION:DRINK LARGE AMOUNTS OF WATER AND SEEK MEDICAL ATTENT

======================================
 Extinguishing Media:DRY CHEMICAL. DO NOT USE WATER. Fire Fighting Procedures:USE SELF CONTAINED BREATHING APPARATUS ABOVE 1400C (2552F). Unusual Fire/Explosion Hazard:IF GENERATED, DUSST IS EXPLOSIVE ABOVE 100 F. INCOMPLETE THERMAL DEGRADATION OF RESINS ARE KNOWN TO GIVE OFF SMELL OF FORMALDEHYDE.
======================================
Spill Release Procedures:COLLECT AND USE. I F CONTAMINATED OR IN SMALL PARTICLES, VACUUM OR COLLECT THE MATERIAL. NEVER USE METHODS THAT GENERATE DUST. Neutralizing Agent:NONE
======================================
Handling and Storage Precautions:NO INFORMATION GIVEN ON MSDS BY MFR. Other Precautions:AVOID CONTACT WITH FUMES OR DUST.
========= Exposure Controls/Personal Protection ====================================
Respiratory Protection:ABOVE TLV, NIOSH APPPROVED RESPIRATORS - SEE 29CFR1910.134. Ventilation
:LOCAL EXHAUST IS PREFERRED, MECANICAL IS OK. Protective Gloves:HEAT RESISTANT DURING SOLDERING Eye Protection:GOGGLES OR FACE SHIELD DURING SOLDERING Other Protective Equipment:AS REQUIRED TO AVOID CONTACT. Work Hygienic Practices:WASH AFTER USE. FOLLOW GOOD INDUSTRIAL HYGIENE PRACTICES. Supplemental Safety and Health KEY2:KT
======================================

HCC:N1 NRC/State Lic Num:NONE Boiling Pt:B.P. Text:2210F,1210C Melt/Freeze Pt:M.P/F.P Text:453F, 234C Vapor Pres:1 AT 1626F Spec Gravity:7.46 Evaporation Rate & amp; Reference:NAP Solubility in Water:NIL Appearance and Odor:GREY SOLID, ODORLESS

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS. STRONG ACIDS. Stability Condition to Avoid:NONE Hazardous Decomposition Products:TOXIC METAL FUMES ABOVE 1375C (2507F). Conditions to Avoid Polymerization:WILL NOT OCCUR

====== Disposal Consideration

Waste Disposal Methods:NEVER DISPOSE OF IN TRASH. HOLD FOR RECYCLING OR DISPOSE OF I/A/W FEDERAL, STATE & LOCAL 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 d

ocument should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.