Product ID:FILLER METALS AND WELDING RODS, JB (10,14,38 MSDS Date:01/01/1987 FSC:3439 NIIN:01-009-2855 MSDS Number: BPVFW === Responsible Party === Company Name: RICKARD METALS INC Address:1707 S GROVE AVE City:ONTARIO State:CA ZIP:91761 Country:US Info Phone Num:714-947-4922/FAX -4909 Emergency Phone Num:714-947-4922 CAGE:67604 === Contractor Identification === Company Name: J B ALLOY CO INC Address:330 S 66TH ST Box:230070 **City:HOUSTON** State:TX ZIP:77011 Country:US Phone:713-926-3232 CAGE:4M698 Company Name: RICKARD METALS INC Address:1707 S GROVE AVE Box:City:ONTARIO State:CA ZIP:91761 Country:US Phone:714-947-4922 CAGE:67604

Ingred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Other REC Li mits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9293

Ingred Name:BORON CAS:7440-42-8 RTECS #:ED7350000 Other REC Limits:NONE RECOMMENDED ACGIH TLV:10 MG/M3 (MFR)

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 Other REC Limits:NONE RECOMMENDED OSHA PEL:5 MG/M3 (MFR) ACGIH TLV:10 MG/M3 (MFR)

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:CHROMIUM (SARA III) CAS:7440-47-3 RTECS #:GB4200000 Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3; 9293 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:ACUTE-FUMES & GASE S CAN BE DANGEROUS TO YOUR HEALTH.ARC RAYS CAN INJURE EYES & BURN SKIN.ELECTRIC SHOCK CAN KILL.INHALATION OF FUMES MAY CAUSE DIZZINESS, NAUSEA, DRYNESS/IRRITATION OF NOSE, THROAT/EYES, TIGHTNESS IN CHEST, FEVER & ALLERGIC REACTIONS. MAY LEAD TO SIDEROSIS & AFFECT PULMONARY FUNCTION.CHRONIC-CAN CAUSE CANCER. Explanation of Carcinogenicity: CONTAINS NICKEL AND CHROMIUM. Effects of Overexposure: FUMES & GASES CAN BE DANGEROUS TO YOUR HEALTH. ARC RAYS CAN INJURE EYES & BURN SKIN. EL ECTRIC SHOCK CAN KILL. INHALATION OF FUMES MAY CAUSE DIZZINESS, NAUSEA, DRYNESS/IRRITATION OF NOSE, THROAT/EYES, TIGHTNESS IN CHEST, FEVER & ALLERGIC REACTIONS. MAY LEAD TO SIDEROSIS & AFFECT PULMONARY FUNCTION. Medical Cond Aggravated by Exposure: PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTIBLE TO THIS MATERIAL. First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN:WASH WITH SOAP & WATER, EYE:FLUS H WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. INHALED: REMOVE TO FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED. **ORAL: GET P ROMPT MEDICAL ATTENTION.** Flash Point:NONE Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS. Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARA TUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE. Unusual Fire/Explosion Hazard:WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES AND FLAMMABLES. Handling and Storage Precautions: STORAGE- STORE IN DRY PLACE.

Other Precautions: AN ADEQUATE EXHAUST SYSTEM IS REQUIRED TO AVOID THE EFFECT OF FUMES. DO NOT INHALE FUMES OR DUST. WASH THOROUGHLY AFTER HANDLING.

======= Exposure Controls/Personal Prot

ection ==========

Respiratory Protection: USE NIOSH APPROVED SUPPLIED AIR RESPIRATORY PROTECTION OR RESPIRABLE FUME RESPIRATOR WHEN WELDING, BRAZING OR SOLDERING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE B ELOW TLV. Ventilation:LOCAL EXHAUST Protective Gloves:WELDER'S GLOVES Eye Protection: CHEMICAL SAFETY GOGGLES Other Protective Equipment: EYE WASH STATION, QUICK DRENCH SHOWER AND **IMPERVIOUS CLOTHING** Work Hygienic Practices: OBSERVE GOOD PE **RSONAL HYGIENE PRACTICES AND** RECOMMENDED PROCEDURES. Supplemental Safety and Health THE MSDS WAS UNDATED. THE MANUFACTURER STATED THAT THE ORIGINAL MSDS WAS WITHOUT DATE AND THEY ARE NOT MAKING PRODUCT SINCE 1987. HCC:N1 Stability Indicator/Materials to Avoid:YES NONE Stability Condition to Avoid:NONE Hazardous Decomposition Products: CARBON MONOXIDE . CARBON DIOXIDE. OZONE, NITROGEN OXIDES MAY BE FORMED.

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE & L OCAL REGULATIONS.

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