View NSN Online: https://aerobasegroup.co.il/nsn/3439-00-178-8590

Product ID: ALUMINUM ALLOYS MSDS Date:05/11/1987 FSC:3439 NIIN:00-178-8590 MSDS Number: BQXRT === Responsible Party === Company Name: HEFLIN STEEL COMPANY Address:1111 W MARICOPA FREEWAY Box:1249 City:PHOENIX State:AZ ZIP:85001 Country:US Info Phone Num:602-252-8061 Emergency Phone Num:602-252-8061 CAGE :9J432 === Contractor Identification === Company Name: HEFLIN STEEL COMPANY Address:1111 W MARICOPA FREEWAY Box:1249 City:PHOENIX State:AZ ZIP:85001 Country:US Phone:602-252-8061 CAGE:9J432

Ingred Name:ALUMINUM (SARA III) CAS:7429-90-5 RTECS #:BD0330000 Fraction by Wt: 90-99.7% Other REC Limits:NONE RECOMMENDED OSHA PEL:15MG/M3 DUST/5 FUME ACGIH TLV:10MG/M3 DUST; 9293

Ingred Name:COBALT (SARA III) CAS:7440-48-4 RTECS #:GF87 50000 Fraction by Wt: 1-10% Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1 MG/M3;AS CO ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name:COPPER (SARA III) CAS:7440-50-8 RTECS #:GL5325000 Fraction by Wt: 1-10% Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV:0.2MG/M3 FUME; 9293 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:IRON OXIDE (FE2O3) CAS:1309-37-1 RTECS #:NO7400000 Fraction by Wt: 1-10% Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG/M3 (FE) ACGIH TLV:5 MG/M3 (FE),B2; 9293

Ingred Name:LEAD (SARA III) CAS:7439-92-1 RTECS #:OF7525000 Fraction by Wt: 0.2-0.7% Other REC Limits:NONE RECOMMENDED OSHA PEL:0.05 MG/M3;1910.1025 ACGIH TLV:0.15 MG/M3;DUST 9293 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:MAGNESIUM OXIDE CAS:1309-48-4 RTECS #:OM3850000 Fraction by Wt: 1-10% Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 PARTICULATE ACGIH TLV:10 MG/M3;TDUST; 9293

Ingred Name:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO9275000 Fraction by Wt: 1-10% Oth er REC Limits:NONE RECOMMENDED OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 Fraction by Wt: 1-10% Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:TIN CAS:7440-31-5 RTECS #:XP7320000 Fraction by Wt: 1-10% Other REC Limits:NONE RECOMMENDED OSHA PEL:2 MG/M3 ACGIH TLV:2 MG/M3; 9293

Ingred Name:ZINC OXIDE CAS:1314-13-2 RTECS #:ZH4810000 Fraction by Wt: 1-10% Other REC Limits:NONE RECOM MENDED OSHA PEL:15MG/M3 TDUST/5 FUME ACGIH TLV:10MG/M3 TDUST; 9293

LD50 LC50 Mixture:TLV FOR WELDING FUMES IS 5 MG/M3 Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE: COPPER FUMES MAY CAUSE UPPER RESPIRATORY TRACT IRRITATION, NAUSEA, AND METAL FUME FEVER. CHRONIC: LEAD FUMES MAY CAUSE CENTRAL NERVOUS SYSTEM DISTURBANCES,

RENAL CHANGES, PERIPHERAL NEUROPATHY, GASTROINTESTINAL DISTURBANCES, ANEMIA, AND CHROMOSOMAL CHANGES.

Explanation of Carcinogenicity:NICKEL AND CHROMIUM IF PRESENT WILL BE ONLY IN TRACE AMOUNTS.

Effects of Overexposure:UPPER RESPIRATORY TRACT IRRITATION, NAUSEA, METAL FUME FEVER.

Medical Cond Aggravated by Exposure:PREEXISTING RESPIRATORY DISEASES MAY BE AGGRAVATED BY EXPOSURE TO THE DUST AND FUMES OF THIS PRODUCT.

First Aid:INHALATION: REMOVE FROM EXPOSURE. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF NOT BREATHING, GIVE CPR. IF NO DETECTABLE PULSE, GIVE HEART MASSAGE. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 1 5 MINUTES. SKIN: WASH WITH SOAP AND WATER. INGESTION: SEEK MEDICAL ATTENTION.

Extinguishing Media: USE CLASS D DRY POWDER EXTINGUISHING MATERIAL. DO NOT USE WATER OR HALOGEN ON DUST FI

RES.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:DUST MAY IGNITE READILY. DAMP ALUMINUM DUST MAY HEAT SPONTANEOUSLY WITH LIBERATION OF HYDROGEN TO FORM EXPLOSIVE AIR MIXTURES.

Spill Release Procedures: CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE AND PLACE IN APPROPIATE DISPOSAL CONTAINER. AVOID INHALATION AND SKIN EXPOSURE.

Handling and Storage Precautions:STORE IN DRY AREA. ELECTRODES EXPOSED TO MOISTURE MAY EXPLODE VIOLENTLY IF USED. DRY MOIST RODS BY BAKING AT 300F FOR TEN HOURS.

Other Precautions:TRAIN WELDER TO KEEP HIS HEAD OUT OF THE FUMES. MONITOR AIR TO ENSURE ACCEPTABLE EXPOSURES. AVOID ELECTRICAL SHOCK BY MAINTAINING DRY WORK AREA.

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

Respiratory Protection: FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR IN CONFINED SPACES OR WHERE VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation:LOCAL EXHAUST TO KEEP BELOW TLV.

Protective Gloves:WELDER'S GLOVES.

Eye Protection: HELMET OR FACE SHIELD WITH FILTER LENS.

Other Protective Equipment: SUBSTANTIAL DARK CLOTH, ARM PROTECTOR,

APRON, HAT AND SHOULDER PROTECTION. AIR SAMPLING TO DETERMINE CORRECTIVE MEASURES

Work Hygienic Practices: WASH HANDS THOROUGHLY BEFORE EATING,

SMOKING OR USING SANITARY FACILITIES. Supplemental Safety and Health NONE.

HCC:N1 Melt/Freeze Pt:M.P/F.P Text:900F,482C Spec Gravity:2.5-2.9 Solubility in Water:INSOLUBLE Appearance and Odor:SOLID WITH SILVER METALLIC LUSTRE. ODORLESS.

Stability Indicator/Materials to Avoid:YES REACTS WITH STRONG ACIDS AND SODIUM HYDROXIDE. AVOID BROMATES, IODATES,

AMMONIUM NITRATE AND STRONG OXIDIZERS. Stability Condition to Avoid:NONE Hazardous Decomposition Products:FUMES OF METALS AND METAL OXIDES FROM ELECTRODE AND BASE METAL, CARBON MONOXIDE, CARBON DIOXIDE, OZONE, NITROGEN OXIDES.

Waste Disposal Methods:CONSULT WITH YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSE OF FUMES, FLUX OR WELD GRINDING RESIDUE FROM THE WORK AREA IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRO NMENTAL

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 document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their

particular situation.