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BOB MARTIN COMPANY -- HASTELLOY W -- 3439-00-063-5203

Product ID:HASTELLOY W MSDS Date:04/01/1987 FSC:3439 NIIN:00-063-5203 MSDS Number: BCWXD === Responsible Party === Company Name: BOB MARTIN COMPANY Address:2209 N SEAMAN AVENUE City:SO. EL MONTE State:CA ZIP:91733 Info Phone Num:213-686-2220 Emergency Phone Num:213-686-2220 CAGE: JO950 === Contractor Identificat ion === Company Name: BOB MARTIN COMPANY Address:2209 N SEAMAN AVENUE Box:City:SO. EL MONTE State:CA ZIP:91733 Phone:213-686-2220 CAGE: JO950 Company Name: MARTIN BOB CO Address:2209 N SEAMAN AVE Box:City:SOUTH EL MONTE State:CA ZIP:91733-2630 Country:US Phone:213-686-2220 CAGE:6K906

Ingred Name:COBALT (SARA III) CAS:7440-48-4 RTECS #:GF8750000 Fraction by Wt: 2.5% MAX OSHA PEL:0.1 MG/M3;AS CO ACGIH TLV:0.05 MG/M3;DUST 9293

In

gred Name:CHROMIUM (SARA III) CAS:7440-47-3 RTECS #:GB4200000 Fraction by Wt: 5.0% OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3; 9192 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:IRON OXIDE CAS:1309-37-1 RTECS #:NO7400000 Fraction by Wt: 6.0% OSHA PEL:10 MG/M3 (FE) ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO9275000 Fraction by Wt: 1.0% MAX Other REC Limits:1.0MG/M3(FUME),ACGIH OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:MOLYBDENUM CAS:7439-98-7 RTECS #:QA4680000 Fraction by Wt: 24% OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9293

Ingred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 63.0% OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9192

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 Fraction by Wt: 1.0% MAX Other REC Limits:5.0MG/M3;RESP. DUST OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:VANADIUM (SARA III) CAS:7440-62-2 RTECS #:YW1355000 Fraction by Wt: 0.6% MAX Other REC L imits:ABOVE FIG.FOR V*20*5 OSHA PEL:C,0.5 MG V205/M3 RD ACGIH TLV:0.05 MG V205/M3;9293

Ingred Name:GRAPHITE, SYNTHETIC CAS:7440-44-0 RTECS #:FF5250100 Fraction by Wt: 0.12% OSHA PEL:15 MG/M3 TDUST ACGIH TLV:2 MG/M3 TDUST; 9293

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES Health Hazards Acute and Chronic:ACUTE:METALLIC TASTE,NAUSEA,CHEST TIGHTNESS,FEVER, DIZZINESS,DRYNESS,EYES,NOSE,THROAT IRRITATION,ALLERGIC SKIN REACTIONS,IRRITATION & DERMATITIS. CHRONIC:BRONCHIAL ASTHMA,LUNG FIBROSIS,PNEUMOCONIOSIS.L UNG CANCER(CR & NI EXPOSURE).CNS DEPRESSION(MN EXPOSURE),GI DISORDERS(FE EXPOSURE). Explanation of Carcinogenicity:CHROMIUM VI IS A HUMAN CARCINOGEN. CHROMIUM III IS A SUSPECTED HUMAN CARCINOGEN. NICKEL IS A SUSPECTED

HUMAN CARCINOGEN.

Effects of Overexposure:SEE HEALTH HAZARDS.

Medical Cond Aggravated by Exposure:AGGRAVATI

ON OF EXISTING RESPIRATORY

OR ALLERGIC CONDITIONS.HIGHER LEVEL OF LUNG RELATED PROBLEMS AMONG SMOKERS.SCREEN INDIVIDUALS WITH NERVOUS,CIRCULATORY,BLOOD OR KIDNEY CONDITIONS.

First Aid:REMOVE FROM EXPOSURE AND OBTAIN PROMPT MEDICAL ATTENTION.IF NOT BREATHING,GIVE CPR.IF UNCONSCIOUS,GIVE OXYGEN;SKIN:WASH WITH SOAP & WATER,IF IRR.PERSISTS,SEE DOCTOR;EYES:FLUSH WITH LARGE AMOUNTS OF WA TER.IF IRR.PERSISTS, SEE DOCTOR.DO NOT WEAR CONTACT

LENSES; INGESTION: DRINK LARGE QUANTITIES OF WATER. INDUCE VOMIT, SEE DOCTOR IMMEDIATELY.

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:IF THIS MATERIAL IS REDUCED TO POWDER FORM,CAUTION MUST BE USED TO PREVENT FIRE OR EXPLOSION. TO EXTINGUISH USE DRY SAND,DRY GRAPHITE,OR OTHER CLASS"D"EXTINGSHR Unusual Fire/Explosion Hazard:WELDING ARCS AND

SPARKS CAN IGNITE COMBUSTIBLE PRODUCTS

Spill Release Procedures: IF IN SOLID FORM, SWEEP UP & PLACE IN APPROPRIATE DISPOSAL CONTAINER. IF IN POWDER FORM, VACUUM WITH HIGH EFF. PARTICULATE FILTRATION SYSTEM. MINIMIZE AIRBORNE GENERATION OF POWDER & AVOID WATER CONTAMINA TION & PLACE IN APPROPRIATE DISPOSAL CONTAINER.

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

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

Ventilation:LOCAL EXHAUST TO MAINTAIN 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, SHOULDER PROTECTION.

Work Hygienic Practices: WASH HANDS THOROUGHLY BEFORE

EATING, SMOKING, USING SANITARY FACILITIES.

Supplemental Safety and Health

MSDS INFORMATION OBTAINED FROM MSDS BY CABOT OF 01NOV85, CAGE 7T173.

HCC:N1 Melt/Freeze Pt:M.P/F.P Text:2400F,1316C Spec Gravity:9.0 Solubility in Water:INSOLUBLE Appearance and Odor:WELDING ROD,NO ODO

R Percent Volatiles by Volume:NONE

Stability Indicator/Materials to Avoid:YES MINERAL ACIDS & OXIDIZING AGENTS WHICH MAY GENERATE HYDROGEN GAS,WHICH IS EXPLOSIVE. Hazardous Decomposition Products:FUMES OF METALS AND METAL OXIDES,CO,NO*2,O*3.

Waste Disposal Methods:DISPOSE OF FUMES,FLUX OR WELD GRINDING RESIDUE FROM THE WORK AREA OR FROM FILTERS I AW ALL APPLICABLE FEDERAL,STATE AND LOCAL REGULATIONS.

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