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INWELD MFG CORP -- COVERED ELECTRODE FOR MMAW -- 3439-00-262-2742

Product ID:COVERED ELECTRODE FOR MMAW MSDS Date:09/01/1989 FSC:3439 NIIN:00-262-2742 MSDS Number: BWSDX === Responsible Party === Company Name: INWELD MFG CORP Address:1471 JERSEY AVE City:NORTH BRUNSWICK State:NJ ZIP:08902 Country:US Info Phone Num:800-346-5368, FAX:201-545-3831 **Emergency Phone Num** :201-545-3800 CAGE:66376 === Contractor Identification === Company Name: INWELD MFG CORP Address:3962 PORTLAND ST Box:40 City:COPLAY State:PA ZIP:18037-0040 Country:US Phone:610-261-1900 CAGE:66376 Ingred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 40-70% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9394 Ingred Name:CHROMIUM (SARA III) CAS:7440-47-3 RTECS #:GB4200000 Fract

ion by Wt: 0-15% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3; 9394 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 Fraction by Wt: 0.5-10% Other REC Limits:NONE RECOMMENDED

Ingred Name:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO9275000 Fraction by Wt: 0.5-6% Other REC Limits:NONE RECOMMENDED OSHA PEL:C 5 MG/M3 ACGIH TLV:5 MG/M3, DUST; 9394

Ingred Name:MOLYBDENUM CAS:7439-98-7 RTECS #:QA4680000 Fraction by Wt: 0-15% Other REC Lim its:NONE RECOMMENDED OSHA PEL:10 PPM. ACGIH TLV:10 PPM.

Ingred Name:NIOBIUM (ALSO CALLED COLUMBIUM) CAS:7440-03-1 Fraction by Wt: 0-5% Other REC Limits:NONE RECOMMENDED

Ingred Name:COPPER (SARA III) CAS:7440-50-8 RTECS #:GL5325000 Fraction by Wt: 0-2% Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV:0.2 MG/M3 FUME; 9394 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 Fraction by Wt: 0.1-1.0% Other REC Limits:NONE RECOMMEN DED OSHA PEL:10 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9394

Ingred Name:TITANIUM CAS:7440-32-6 RTECS #:XR1700000 Fraction by Wt: 0-2% Other REC Limits:NONE RECOMMENDED

Ingred Name:GRAPHITE (NATURAL) CAS:7782-42-5 RTECS #:MD9659600 Fraction by Wt: 0-3% Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MPPCF; Z-3 ACGIH TLV:2 MG/M3 RDUST; 9394

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE) CAS:1317-65-3 RTECS #:EV9580000 Fraction by Wt: 5-10% Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TD UST ACGIH TLV:10 MG/M3 TDUST; 9394

Ingred Name:CALCIUM FLUORIDE CAS:14542-32-6 RTECS #:999999992Z Fraction by Wt: 2-5% Other REC Limits:NONE RECOMMENDED

Ingred Name:STRONTIUM CARBONATE CAS:1633-05-2 Fraction by Wt: 0-15% Other REC Limits:NONE RECOMMENDED

Ingred Name:CRYOLITE (SODIUM ALUMINUM FLUORIDE) CAS:15096-52-3 RTECS #:WA9625000 Fraction by Wt: 2-5% Other REC Limits:NONE RECOMMENDED

Ingred Name:POTASSIUM TITANATE CAS:12030-97-6 Fraction by Wt: 0-3% Other REC Limits:NONE RECOMMENDED

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ed Name:TITANIUM DIOXIDE CAS:13463-67-7 RTECS #:XR2275000 Fraction by Wt: 0-10% Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9394

Ingred Name:POTASSIUM SILICATE CAS:1312-76-1 Fraction by Wt: 0-2% Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM SILICATE CAS:1344-09-8 Fraction by Wt: 1-5% Other REC Limits:NONE RECOMMENDED

Ingred Name:PRODUCT ECWNI CONTAINS ABOUT 70% COPPER & 30% NICKEL. RTECS #:99999992Z Other REC Limits:NONE RECOMMENDED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:ELECTRIC ARC-WELDING MAY CREATE ONE OR
MORE OF HEALTH HAZ:FUMES/GASES-DANGEROUS TO HEALTH;ARC RAYS-INJURE
EYES,BURN SKIN;ELECTRIC SHOCK-KILL. SHORT-TERM OVEREXPO TO WELDING
FUMES RESULT IN DISCOMFORT. LONG-TERM OVEREXPO MAY LEAD TO
SIDEROSIS(IRON DEPOSIT IN LUNGS) & BELIEVED BY
SOME TO AFFECT PULM
FUNCTION.
Explanation of Carcinogenicity:PER MSDS:CONTAINS NICKEL &
CHROMIUM:CARCINOGENICITY-YES.
Effects of Overexposure:ACUTE:DIZZINESS,NAUSEA,DRYNESS,IRRIT OF
NOSE/THROAT/EYES,TIGHTNESS IN CHEST,FEVER,ALLERGIC RXS.
CHRONIC:SIDEROSIS,AFFECT PULM FUNCTIN.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid:REMOVE TO FRESHAIR. OBTAIN MED ATTN. EMPLOY 1STAID TECHNI

QUES RECOMMENDED BY AMERICAN RED CROSS.

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Extinguishing Media:NONE SPECIFIED BY MANUFACTURER. HOWEVER USE APPROPRIATE EXTINGUISHING MEDIA FOR SURROUNDING FIRE/MATERIALS. Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER. HOWEVER USE APPROPRIATE PROTECTIVE CLOTH/EQPMT AS CONDITIONS WARRANT. Unusual Fire/Explosion Hazard:WELDING ARC & SPARKS CAN IGNITE COMBUSTIBLES & FLAMM. REFER TO AMER NAT STD Z49.1 FOR FI RE
PREVENTION DURING THE USE OF WELDING & ALLIED PROCEDURES.
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Spill Release Procedures: NONE SPECIFIED BY MANUFACTURER.
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Handling and Storage Precautions:CLEAR WELD FUMES W/EXHA SYS.MAKE SURE INHAL AIR DOESN'T CONTAIN FUME CONSTITUENTS ABOVE PEL.SEE AMER STD Z49.1-1983"SAF IN WELD/CUT"&WELD HANDBK VOL1. Other Precautions:SEE AWS PUBLICATION:"FUMES & GASES IN WELDING
ENVIRO",AWS F1.1,AWS F1.2-1985.ONE RECOMMENDED WAY TO DETERMINE COMPOSITION/QUANT OF FUME/GASES TO WHICH WORKERS ARE EXPO IS TO TAKE AIR SAMPLE FRM INSIDE WELDER'S HELMET OR WORKER'S BREATH ZONE
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Respiratory Protection:USE RESPIRABLE FUME RESPIRTORY OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPO BELOW RECOMMENDED EXPO LIMIT
Ventilation:USE ENOUGH VENTI/LOC EXHAU @ARC/BOTH TO KEEP FUME/GAS FRM WORKER'S BREATH ZONE & GENERAL AREA. Protective Gloves:WELDER'S GLOVE
Eye Protection:HELMET,FACESHIELD W/FILT LENS. Other Protective Equipment:SCREENS/FLASH GOGG TO SHIELD OTHERS.START W/SHADE TOO DARK TO SEE WELD ZONE & CONT TIL SEE ZONE.HAND/HEAD/BODY PROT
Work Hygienic Practices:READ/UNDERSTAND MFG'S INSTRUCTIONS/PRECAUT LABEL ON PRODUCT.TRAIN WELDER KEEP HEAT OUT OF FUMES & INSULATE FRM WORK/GRND Supp
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lemental Safety and Health HAZ DECOMP PROD:WELDER'S HEAD POSITION, ATMS CONTAMIN. REASONABLY EXPECT:NICKEL,OXIDES,COMPLEX OXIDES OF IRON, CHROMIUM, MANGANESE, SILICON, TITANIUM, COPPER, MOLYBDENUM, ALUMINUM ,COLUMBIUM,FLUORIDES.CARBON MO NOXIDE/CARBON DIOXIDE FRM GAS RX,OZONE/NITROGEN OXIDES FRM RADIOATION FRM ARC. HCC:N1 Stability Indicator/Material s to Avoid:YES NONE. Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products: COMPO/QUALITY OF WELDING FUMES/GAS DEPEND ON:METAL, PROCESS, PROCEDURE, ELECTRODES, METAL COATINGS, #OF WORKERS, VENTI, (SUPPL) Waste Disposal Methods: PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRO. DISCARD ANY PROUDCT RESIDUE, DISPOSABLE CNTNR OR LINER IN ENVIRONMENTALLY ACCEPTABLE MANNER IN FULL COM

PLIANCE

W/FED/STATE/LOC REGS.

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