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

======== Product Identification ============

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

======= Composition/Information on Ingredients ========

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 #:9999999ZZ 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

Ingr

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 #:9999999ZZ Other REC Limits: NONE RECOMMENDED ========= ====== Hazards Identification ============ 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. 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. ======== Accidental Release Measures ============ Spill Release Procedures: NONE SPECIFIED BY MANUFACTURER. ============= Handling and Storage ========================== 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 ===== Exposure Controls/Personal Protection ======== 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

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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