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INWELD MFG CORP -- COVERED ELECTRODES FOR MMAW -- 3439-01-039-6408

Product ID:COVERED ELECTRODES FOR MMAW MSDS Date:09/01/1989 FSC:3439 NIIN:01-039-6408 MSDS Number: BJRQQ === Responsible Party === Company Name: INWELD MFG CORP Address:1471 JERSEY AVE Box:6019 City:NEW BRUNSWICK State:NJ ZIP:08902 Country:US Info Phone Num:201-545-3800 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:IRON CAS:7439-89-6 RTECS #:NO4565500 Fraction by Wt: 55-70% Other REC Limits:NONE SPECIFIED OSHA PEL:10 MG/M3(IRON OXIDE) ACGIH TLV:5 MG/M3 (IRON OXIDE)

Ingred Name:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO9275000 Fraction by Wt: 0.5-2.0% Other REC Limits:NONE SPECIFIED 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: 0.1-1.0% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:CHROMIUM (SARA III) CAS:7440-47-3 RTECS #:GB4200000 Fraction by Wt: 0-3.5% Other REC Limits:NONE SPECIFIED OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3; 9192 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:MOLYBDENUM CAS:7439-98 -7 RTECS #:QA4680000 Fraction by Wt: 0-1.0% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9293

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE) CAS:1317-65-3 RTECS #:EV9580000 Fraction by Wt: 5-12% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:FLUORSPAR CAS:14542-23-5 Fraction by Wt: 3-10% Other REC Limits:NONE SPECIFIED OSHA PEL:2.5 MG/M3 FLUORIDE ACGIH TLV:2.5 MG/M3 FLUORIDE

Ingred Name:POTASSIUM TITANATE C

AS:12030-97-6 Fraction by Wt: 0-2% Other REC Limits:NONE SPECIFIED

Ingred Name:POTASSIUM ALUMINUM SILICATE (FELDSPAR) CAS:68476-25-5 Fraction by Wt: 0-2% Other REC Limits:NONE SPECIFIED

Ingred Name:ALPHA-ALUMINA (ALUMINUM OXIDE) (EPA LISTS ONLY FIBROUS FORMS) (SARA III) CAS:1344-28-1 RTECS #:BD1200000 Fraction by Wt: 0-1% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:SILICA, AMORPHOUS, DUST CAS:112945-52-5 RTECS #:VV7310000 Fraction b y Wt: 0-2% Other REC Limits:NONE SPECIFIED OSHA PEL:6 MG/M3 ACGIH TLV:10 MG/M3; 8990

Ingred Name:TITANIUM DIOXIDE CAS:13463-67-7 RTECS #:XR2275000 Fraction by Wt: 0-3% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:POTASSIUM SILICATE CAS:1312-76-1 Fraction by Wt: 0-3% Other REC Limits:NONE SPECIFIED

Ingred Name:SODIUM SILICATE CAS:1344-09-8 Fraction by Wt: 0-5% Other REC Limits:NONE SPECIFIED

Ingred Name:CRYOLITE CAS:15096-52-3 Fraction by Wt: 0-2% Other REC Limits:NONE SPECIFIED

Ingred Name:MAGNESITE CAS:546-93-0 RTECS #:OM2470000 Fraction by Wt: 0-2% Other REC Limits:NONE SPECIFIED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:POTASSIUM HYDROXIDE (SARA III) CAS:1310-58-3 RTECS #:TT2100000 Fraction by Wt: 0-0.5% Other REC Limits:NONE SPECIFIED OSHA PEL:C, 2 MG/M3 ACGIH TLV:C 2 MG/M3; 9192 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Routes

of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:FUMES AND GASES CAN BE DANGEROUS TO YOUR HEALTH. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL. NOISE CAN DAMAGE HEARING. Explanation of Carcinogenicity:CHROMIUM IS LISTED UNDER NTP AND IARC. Effects of Overexposure:ACUTE:METALLIC TASTE,NAUSEA,TIGHTNESS OF CHEST,FEVER,DIZZINESS,DRYNESS,IRRITATION OF EYES,NOSE AND THROAT. CHRO NIC:EXCESSIVE LEVELS MAY CAUSE BRONQUIAL ASTHMA,LUNG FIBROSIS AND PNEUMOCONIOSIS. Medical Cond Aggravated by Exposure:AGGRAVATION OF EXISTING RESPIRATORY OR ALLERGIC CONDITIONS.HIGHER LEVEL OF LUNG RELATED PROBLEMS AMONG SMOKERS.

First Aid:REMOVE FROM EXPOSURE AND OBTAIN PROMPT MEDICAL ATTENTION. IF NOT BREATHING, GIVE CPR/OXYGEN. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY AMERICAN RED CROSS.

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| ====== Fire Fighting Measures ====================================   |
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| <ul> <li>Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPIATE<br/>FOR SURROUNDING FIRE.</li> <li>Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A<br/>FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED<br/>CONTAINERS WITH WATER SPRAY. CONTAIN RUNOFF.</li> <li>Unusual Fire/Explosion Hazard:WELDING ARCS, SPARKS, ETC. MAY IGNITE<br/>COMBUSTIBLE MATERIAL.</li> </ul> |
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| Spill Release Procedures: CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE<br>AND PLACE IN APPROPIATE DISPOSAL CONTAINER.   |
| ======================================   |
| Handling and Storage Precautions:STORE IN DRY AREA. ELECTRODES EXPOSED<br>TO MOISTURE MAY EXPLODE VIOLENTLY IF USED. DRY MOIST RODS BY BAKING<br>AT 300F FOR TEN HOURS.  |
| Other Precautions:TRAIN WELDER TO KEEP HIS HEAD OUT OF THE<br>FUMES.MONITOR AIR TO ENSURE ACCEPTABLE EXPOSURES.AVOID ELECTRICAL<br>SHOC  |
| K BY MAINTAINING DRY WORK AREA. WELDING ARC CAN IGNITE<br>COMBUSTIBLES AND FLAMMABLES.   |
| ======================================   |
| Respiratory Protection: FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR IN<br>CONFINED SPACES OR WHERE VENTILATION DOES NOT KEEP EXPOSURE BELOW<br>TLV.   |
| Ventilation:LOCAL EXHAUST TO KEEP BELOW TLV.   |
| Protective Gloves:WELDER'S GLOVES.<br>Eye Protection:HELMET OR FACE SHIELD WITH FILTER LENS.   |
| Other Protective Equipment:SUBSTANTIAL DARK CLOTH,ARM  |
| ROTECTOR, APRON, HAT AND SHOULDER PROTECTION. AIR SAMPLING TO<br>DETERMINE CORRECTIVE MEASURES.  |
| Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING,SMOKING OR USING SANITARY FACILITIES.  |
| Supplemental Safety and Health<br>NONE.  |
| ======================================   |
| HCC:V7   |
| Solubility in Water: INSOLUBLE   |
| Appearance and Odor:WELDING ROD.   |

Stability Indicator/Materials to Avoid:YES Hazardous De

composition Products:FUMES OF IRON,COMPLEX OXIDES OF MANGANESE,SILICON,CHROMIUM,MOLYBDENUM,FLUORIDES,CO,CO2,NITROGEN OXIDES,OZONE.

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

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