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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

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

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 =============
Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. CONTAIN RUNOFF. Unusual Fire/Explosion Hazard:WELDING ARCS, SPARKS, ETC. MAY IGNITE COMBUSTIBLE MATERIAL.
========= Accidental Release Measures ========
Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE AND PLACE IN APPROPIATE DISPOSAL CONTAINER.
========== Handling and Storage ===========
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 SHOC  K BY MAINTAINING DRY WORK AREA. WELDING ARC CAN IGNITE COMBUSTIBLES AND FLAMMABLES.
====== 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
ROTECTOR,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.
========== Physical/Chemical Properties ==========
HCC:V7 Solubility in Water:INSOLUBLE Appearance and Odor:WELDING ROD.
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES Hazardous De

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

======= Disposal Considerations ===========

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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