

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

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Product Identification  
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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

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Composition/Information on Ingredients  
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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 by 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

===== Hazards Identification =====

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 Measures =====

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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Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE 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.

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Accidental Release Measures  
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Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE AND PLACE IN APPROPRIATE DISPOSAL CONTAINER.

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Handling and Storage  
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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.

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Exposure Controls/Personal Protection  
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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

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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.

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Physical/Chemical Properties  
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HCC:V7

Solubility in Water:INSOLUBLE

Appearance and Odor:WELDING ROD.

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Stability and Reactivity Data  
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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.

===== 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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ing agencies):

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