

INWELD MFG CORP -- CAST IRON ELECTRODE -- 3439-00-165-4188

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

Product ID:CAST IRON ELECTRODE

MSDS Date:11/01/1985

FSC:3439

NIIN:00-165-4188

MSDS Number: BSKTB

=== 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 FAX:201-545-3831

Emergency Phone Num:201-5

45-3800

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 =====

Ingred Name:STRONTIUM CARBONATE

CAS:1633-05-2

Fraction by Wt: 4-8% %

Other REC Limits:NONE RECOMMENDED

Ingred Name:BARIUM CARBONATE

CAS:513-77-9

RTECS #:CQ8600000

Fraction by Wt: 4-10%

Other REC Limits:NONE RECOMMENDED

Ingred Name:FLUOR

SPAR (CALCIUM FLUORIDE)

CAS:14542-23-5

Fraction by Wt: 2-5% %

Other REC Limits:NONE RECOMMENDED

OSHA PEL:2.5 MG/M3 AS F

ACGIH TLV:2.5 MG/M3 AS F

Ingred Name:ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000

Fraction by Wt: 2-5% %

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15MG/M3 DUST/5 FUME

ACGIH TLV:10MG/M3 DUST; 9394

Ingred Name:COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000

Fraction by Wt: 1-2% %

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1MG/M3 FUME/1 DUST

ACGIH TLV:0.2 MG/M3 FUM

E; 9394

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:GRAPHITE (NATURAL)

CAS:7782-42-5

RTECS #:MD9659600

Fraction by Wt: 2-6% %

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 MPPCF; Z-3

ACGIH TLV:2 MG/M3 RDUST; 9394

Ingred Name:IRON OXIDE

CAS:1309-37-1

RTECS #:NO7400000

Fraction by Wt: 35-45% %

Other REC Limits:NONE RECOMMENDED

OSHA PEL:10 MG/M3 (FE)

ACGIH TLV:5MG(FE)/M3FUME,B2;94

Ingred Name:NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: 35-40% %

Other REC Limits:N

ONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9394

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 0.5-1% %
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 5 MG/M3
ACGIH TLV:5 MG/M3, DUST; 9394

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

LD50 LC50 Mixture:TLV 5 MG/M3 FOR WELDING FUMES
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:PROD
UCT IS NONHAZARDOUS AS
STORED/SHIPPED. HAZARD OCCURS WHEN USED IN WELDING PROCESS.
ELECTRIC ARC WELDING MAY CREATE FUMES AND GASES THAT MAY BE
DANGEROUS TO HEALTH. ARC RAYS CAN INJURE EYES AND BUR N SKIN.
ELECTRIC SHOCK CAN KILL.
Explanation of Carcinogenicity:CONTAINS NICKEL WHICH IS LISTED AS
CARCINOGENIC BY THE MANUFACTURER.
Effects of Overexposure:SHORT TERM OVEREXPOSURE TO WELDING FUMES MAY
RESULT IN DIZZINESS, NAUSEA, DRYNESS OR IRRITATION OF
NOSE/THROAT/EYES, T
IGHTNESS IN CHEST, FEVER AND ALLERGIC REACTIONS.
CHRONIC EXPOSURE MAY LEAD TO SIDE ROSIS (IRON DEPOSITS IN LUNGS),
IMPAIRED PULMONARY FUNCTION.
Medical Cond Aggravated by Exposure:PRE-EXISTING RESPIRATORY CONDITIONS
MAY BE AGGRAVATED BY EXPOSURE TO WELDING FUMES DURING USE OF THIS
PRODUCT.

===== First Aid Measures =====

First Aid:REMOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION. EMPLOY FIRST
AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED C
ROSS.

===== Fire Fighting Measures =====

Flash Point:NONFLAMMABLE
Lower Limits:NOT GIVEN
Upper Limits:NOT GIVEN
Extinguishing Media:NONFLAMMABLE. USE MEDIA SUITABLE FOR SURROUNDING
FIRE.
Fire Fighting Procedures:NONFLAMMABLE. USE PROCEDURES SUITABLE FOR
SURROUNDING FIRE.
Unusual Fire/Explosion Hazard:WELDING ARC ANS SPARKS CAN IGNITE
COMBUSTIBLES. REFER TO AMERICAN NATIONAL STANDARD Z49.1 FOR FIRE
PREVENTION DURING THE USE OF WELDING AND ALLIED

PROCEDURES.

===== Accidental Release Measures =====

Spill Release Procedures:COLLECT SPILLED MATERIAL FOR REUSE/DISPOSAL.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:PRODUCT IS NONHAZARDOUS AS
STORED/SHIPPED. HAZARD OCCURS WHEN PRODUCT IS USED IN WELDING
PROCEDURES.

Other Precautions:USE EXHAUST SYSTEM TO CLEAR WELDING FUMES. MAKE SURE
THAT INH
ALED AIR DOES NOT CONTAIN FUME CONSTITUENTS ABOVE
PERMISSIBLE EXPOSURE LEVELS.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED
RESPIRATOR WHEN WELDING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST
OR VENTILATION DOES NOT KEEP EXPOSURE BELOW RECOMMENDED EXPOSURE
LIMITS.

Ventilation:USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC OR BOTH,
TO KEEP FUMES AND GASES FROM WORKER'S BREATHING ZON

E.

Protective Gloves:WELDER'S GLOVES

Eye Protection:HELMET OR FACE SHIELD WITH FILTER LENSES

Other Protective Equipment:ARM PROTECTORS, APRONS, HATS, SHOULDER
PROTECTION, AS WELL AS SUBSTANTIAL DARK CLOTHING.

Work Hygienic Practices:TRAIN THE WELDER NOT TO TOUCH LIVE ELECTRICAL
PARTS AND TO INSULATE HIMSELF FROM WORK AND GROUND.

Supplemental Safety and Health

THE COMPOSITION AND QUANTITY OF WELDING FUMES AND GASES ARE DEPENDENT
UPON THE METAL BEING WELDED, THE PROCESS, PROCEDURE AND
ELECTRODES

USED. ONE RECOMMENDED WAY TO DETERMINE THE COMPOSITION AND QUAN
TITY OF FUMES AND GASES TO WHICH WORKERS ARE EXPOSED IS TO TAKE AN
AIR SAMPLE FROM INSIDE THE WELDER'S HELMET.

===== Physical/Chemical Properties =====

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:NOT GIVEN

Vapor Density:NOT GIVEN

Spec Gravity:NOT GIVEN

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:NEGLIGIBLE

Appearance an

d Odor:CAST IRON ELECTRODE
Percent Volatiles by Volume:NIL

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:OXIDES OF IRON, COMPLEX OXIDES OF
MANGANESE, SILICON, CHROMIUM, MOLYBDENUM ALONG WITH FLUORIDES,
CARBON MONOXIDE

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

Waste Dispo

sal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING
ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR
LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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