

INWELD MFG CORP -- 312, STAINLESS STEEL WELDING WIRE -- 3439-01-165-5060

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Product Identification  
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Product ID:312, STAINLESS STEEL WELDING WIRE

MSDS Date:12/01/1999

FSC:3439

NIIN:01-165-5060

Status Code:A

MSDS Number: CLNXW

=== Responsible Party ===

Company Name:INWELD MFG CORP

Address:3962 PROTLAND ST

Box:40

City:COPLAY

State:PA

ZIP:18037-0040

Country:US

Info Phone Num:610-261-1900

Emer

gency Phone Num:610-261-1900

CAGE:66376

=== Contractor Identification ===

Company Name:BLACK AND CO

Address:5351 W MINNESOTA ST

Box:UNKNOW

City:INDIANAPOLIS

State:IN

ZIP:46241

Country:US

Phone:317-243-8676

Contract Num:SP0490-00-D-4063

CAGE:00WU8

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 #:NO456

5500  
OSHA PEL:10 MG/M3 (AS FE O)  
ACGIH TLV:5 MG/M3

Ingred Name:CHROMIUM(4)  
CAS:7440-47-3  
RTECS #:GB4200000  
OSHA PEL:0.05 MG/M3 (CR IV)  
ACGIH TLV:0.05 MG/M3 (CR IV)  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:NICKEL(4)  
CAS:7440-02-0  
RTECS #:QR5950000  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

Ingred Name:MANGANESE  
CAS:7439-96-5  
RTECS #:OO9275000  
OSHA PEL:C5 MG/M3  
ACGIH TLV:5 MG/M3

Ingred Name:SILICON  
CAS:7440-21-3  
RTECS #:VW0400000  
OSHA PEL:5 MG/M3 (AS SIO)  
A  
CGIH TLV:3 MG/M3 (AS SIO)

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:SHORT TERM (ACUTE) OVEREXPOSURE TO  
WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA,  
AND DRYNESS OR IRRITATION OF THE NOSE, THROAT, OR EYES. LONG TERM  
(CHRONIC) OVEREXPOSURE TO WELDING FUMES MAY LEAD TO SIDEROSIS  
(IRON DEPOSITS IN THE LUNG) AND IS BELIEVED BY SOME INVESTIGATORS

TO AFFECT PULMONARY FUNCTION. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.

Explanation of Carcinogenicity:WHEN PRESENT NTP: CR, NI. IARC: CR, NI. OSHA: CR.

Effects of Overexposure:ACUTE: OVEREXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, AND DRYNESS OR IRRITATION OF THE NOSE, THROAT, OR EYES. CHRONIC: OVEREXPOSURE TO WELDING FUMES MAY LEAD TO SIDE ROSIS (IRON DEPOSITS IN THE LUNG) AND IS BELIEVED BY SOME INVESTIGATORS

TO AFFECT PULMONARY FUNCTION. ARC

RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.

Medical Cond Aggravated by Exposure:AGGRAVATION OF PREEXISTING RESPIRATORY OR ALLERGIC CONDITIONS MAY OCCUR IN SOME WORKERS.

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First Aid Measures  
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First Aid:CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

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Fire Fighting Measures  
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Fire Fighting Procedures:R

REFER TO AMERICAN NATIONAL STANDARD Z-49.1 FOR FIRE PREVENTING DURING THE USE OF WELDING PROCEDURES.

Unusual Fire/Explosion Hazard:THESE PRODUCTS AS SHIPPED ARE NONHAZARDOUS, NONFLAMMABLE, NONEXPLOSIVE, AND NONREACTIVE. WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES AND FLAMMABLES.

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Accidental Release Measures  
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Spill Release Procedures:NOT APPLICABLE.

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Handling and Storage  
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Handling and Storage Precautions:

READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THIS PRODUCT. SEE AMERICAN NATIONAL STANDARD Z-49.1, SAFETY IN WELDING AND CUTTING, PUBLISHED BY THE AMERICAN WELDING SOCIETY, P.O. BOX 35410, MIAMI, FL 33135 AND OSHA PUBLICATION 2206 (29 C.F.R. 1910), U.S.

Other Precautions:REACTIVITY-WELDING GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION & QUANTITIES ARE DEPENDENT UPON THE METAL BEING WELDED, THE PROCESS, THE PROCEDURES, &

ELECTRODES USED. THE PRIMARY

ROUTE OF ENTRY OF WELDING FUMES & GASES IS BY INHALATION. WHEN THE ELECTRODE IS CONSUMED, THE FUME & GAS DECOMPOSITION PRODUCTS VARY.

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

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

Ventilation:USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC, OR BOTH,

TO KEEP THE FUMES AND GASES BELOW THE TLV'S IN THE WORKERS BREATHING ZONE AND THE GENERAL AREA.

Protective Gloves:WEAR WELDER GLOVES INCLUDING ARM PROTECTORS FOR HANDS AND ARM PROTECTION.

Eye Protection:WEAR HELMET OR USE FACE SHIELD WITH FILTER LENS.

Other Protective Equipment:WEAR HEAD, HAND, AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS, AND ELECTRICAL SHOCK, INCLUDING APRONS, HATS, SHOULDER PROTECTION, AS WELL AS DARK SUBSTANTIAL CLOTHING

G.

Work Hygienic Practices:TRAIN WELDER TO KEEP HIS HEAD OUT OF THE FUMES AND NOT TO TOUCH LIVE ELECTRICAL PARTS AND TO INSULATE HIMSELF FROM WORK AND GROUND. SEE ANSI Z-49.1

Supplemental Safety and Health

EYE PROTECTION: WEAR HELMET OR USE FACE SHIELD WITH FILTER LENS. AS A RULE OF THUMB, START WITH A SHADE WHICH IS TOO DARK TO SEE THE WELD ZONE. THEN GO TO THE NEXT LIGHTER SHADE WHICH GIVES SUFFICIENT VIEW OF THE WELD ZONE. PROVIDE PROTECTIVE SCREENS AND FLASH GOGGLES, IF NECESSARY, TO SHIELD OTHERS.

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

HCC:N1

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

Stability Condition to Avoid:THIS PRODUCT AS SHIPPED IS NONHAZARDOUS, NONFLAMMABLE, NONEXPLOSIVE, AND NONREACTIVE.

Hazardous Decomposition Products:REASONABLY EXPECTED FUME OR GAS GENERATED WHEN WELDING WITH THIS PRODUCT INCLUDE METAL FUMES, ALUMINUM & MAGNESIUM OXIDES, CARBON OXIDES, OZONE, NITROGEN OXIDE

S,  
INFRA-RED AND ULTRA-VIOLET RADIATION.

===== Toxicological Information =====

Toxicological Information: ONE RECOMMENDED WAY TO DETERMINE COMPOSITION AND QUANTITY OF FUMES AND GASES TO WHICH WORKER'S ARE EXPOSED IS TO TAKE AN AIR SAMPLE INSIDE THE WELDER'S HELMET, IF WORN, OR IN THE WORKER'S BREATHING ZONE. SEE ANSI/AWS F1.1, AVAILABLE FROM THE AMERICAN WELDING SOCIETY, P.O. BOX 351040, MIAMI, FL 33135. THE ACGIH RECOMMENDED GENERAL LIMIT FOR WELDING FUME NOC (NOT OTHERWISE CLASSIFIED) IS 5 MG/M3. THE ACGIH 1984-85 PREFACE STATES: "THE TLV-TWA SHOULD BE USED AS GUIDES IN THE CONTROL OF HEALTH HAZARDS AND SHOULD NOT BE USED AS FIRM LINES BETWEEN SAFE AND DANGEROUS CONCENTRATIONS". SEE INGREDIENTS FOR SPECIFIC AMOUNTS.

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

Waste Disposal Methods: PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER, OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

===== Regulatory Information =====

SARA Title III Information: CHROMIUM, NICKEL, MOLYBDENUM: THESE INGREDIENTS ARE COVERED UNDER THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 AND OF 40 CFR 372.

State Regulatory Information:

===== Other Information =====

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particular situation.