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INWELD MFG CORP -- 312, STAINLESS STEEL WELDING WIRE -- 3439-01-248-8603

Product ID:312, STAINLESS STEEL WELDING WIRE MSDS Date:12/01/1999 FSC:3439 NIIN:01-248-8603 Status Code:A MSDS Number: CLNXX === 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

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)

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:CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.
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Fire Fighting Procedures:R EFER 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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Spill Release Procedures:NOT APPLICABLE.
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Handling and Storage Prec

ELECTRODES USED. THE PRIMARY

ROUTE OF ENT RY OF WELING FUMES & GASES IS BY INHALATION. WHEN THE ELECTRODE IS CONSUMED, THE FUME & GAS DECOMPOS ITION 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 ANDS 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 CLOTHIN

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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.

HCC:N1

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 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 ZO NE. SEE ANSI/AWS F1.1, AVAILABLE FROM THE AMERICAN WELDING SOCIETY, P.O. BOX 351040, MIAMI, FL 33135. THE ACGIH RECOMMENDED GENERAL LIMIT F

OR WELDING FUME NOC (NOT OTHERSWISE 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 INGREDIEN TS FOR SPECIFIC AMOUNTS.

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.

SARA Title III Information:CHROMIUM, NICKEL, MOLYBDENUM: THESE INGREDIENYS 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:

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