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INWELD MFG CORP -- E7018, COVERED ELECTRODES FOR MMAW (MILD STEEL) 3439-01-039-3494 Product ID:E7018, COVERED ELECTRODES FOR MMAW (MILD STEEL) MSDS Date:09/01/1997 FSC:3439 NIIN:01-039-3494 Status Code:A MSDS Number: CLMTH === 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 Emergency Phone Num:800-346-5368 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

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

Ingred Name:IRON

CAS:7439-89-6 RTECS #:NO4565500 Minumum % Wt:65. Maxumum % Wt:85. OSHA PEL:5 MG/M3 ACGIH TLV:10 MG/M3 (AS FE203)

Ingred Name:CELLULOSE CAS:9004-34-6 RTECS #:FJ5691460 Minumum % Wt:.5 Maxumum % Wt:10. OSHA PEL:NOT REGISTERED ACGIH TLV:10 MG/M3

Ingred Name:MANGANESE CAS:7439-96-5 RTECS #:OO9275000 Minumum % Wt:1. Maxumum % Wt:5. OSHA PEL:5 MG/M3 ACGIH TLV:1 MG/M3

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 Minumum % Wt:1. Maxumum % Wt:5. OSHA PEL:5 MG/M3 (AS SI02) ACGIH TLV:3 MG/M3 (AS SI02)

Ingred Name:TITANIUM DIOXIDE CAS:13463-67-7 RTECS #:XR2275000 Minumum % Wt:1. Maxumum % Wt:15. OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name:POTASSIUM TITANATE CAS:12030-97-6 Minumum % Wt:0. Maxumum % Wt:3. OSHA PEL:NOT REGISTERED ACGIH TLV:10 MG/M3

Ingred Name:CALCIUM CARBONATE CAS:1317-65-3 RTECS #:EV9580000 Minumum % Wt:1. Maxumum % Wt:5. OSHA PEL:5 MG/M3 (AS CAO) ACGIH TLV:10 MG/M3

Ingred Name:SODIUM TITANATE CAS:12034-34-3 Minumum % Wt:0. D ACGIH TLV:10 MG/M3

Ingred Name:IRON OXIDE CAS:1309-38-2 RTECS #:OM4800000 Minumum % Wt:0. Maxumum % Wt:5. OSHA PEL:5 MG/M3 ACGIH TLV:10 MG/M3 (AS FE2O3)

Ingred Name:ALUMINUM OXIDE CAS:1344-28-1 RTECS #:BD1200000 Minumum % Wt:0. Maxumum % Wt:2. OSHA PEL:5 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name:SODIUM SILICATE CAS:1344-09-8 Minumum % Wt:0. Maxumum % Wt:5. OSHA PEL:NOT REGISTERED ACGIH TLV:5 MG/M3

Ingred Name:POTASSIUM SILICATE CAS:1312-76-1 Minumum % Wt:0. Maxumum % Wt:5. OSHA PEL:NOT REGISTER ED ACGIH TLV:5 MG/M3

Ingred Name:GRAPHITE CAS:7782-42-5 RTECS #:MD9659600 Minumum % Wt:0. Maxumum % Wt:5. OSHA PEL:NOT REGISTERED ACGIH TLV:5 MG/M3

Ingred Name:SILICON DIOXIDE CAS:7631-86-9 Minumum % Wt:1. Maxumum % Wt:5. OSHA PEL:5 MG/M3 ACGIH TLV:3 MG/M3

Ingred Name:FELDSPAR CAS:68476-25-5 Minumum % Wt:0. Maxumum % Wt:3. OSHA PEL:NOT REGISTERED ACGIH TLV:2 MG/M3

 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. Effects of Overexposure:DIZZINESS, NAUSEA, AND DRYNESS OR IRRITATION OF THE NOSE, THROAT, OR EYES. Medical Cond Aggravated by Exposure:AGGRAVATION OF PREEXISTING
RESPIRATORY OR ALLERGIC CONDITIONS MAY OCCUR IN SOME WORKERS.
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First Aid:EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS. FOR SKIN CONTACT, REMOVE PRATICLES BY THOROUGHLY WASHING WITH SOAP AND WATER. FOR EYE CONTACT, FLUSH WITH WATER FOR AT LEAST 15 MINUT ES, GET MEDICAL ATTENTION. FOR I NHALATION, REMOVE FROM EXPOSURE, GET MEDICAL ATTENTION IF EXPERIENCING BREATHING DIFFICULTY.
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Fire Fighting Procedures:REFER TO AMERICAN NATIONAL STANDARD Z-49.1 FOR FIRE PREVENTION 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.
======= Accidental Release Measures ====================================
Spill Release Procedures:NOT APPLICABLE.
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Handling and Storage Precautions: READ AND UNDERSTAND THE MANUFACTURES'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. BPX 35410, MIAMI, FL 33135 AND OSHA PUBLICATION 2206 (29 C.F.R . 1910), U.S.

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 GSES BELOW THE TLV'S IN THE WORKER'S BREATHING ZONE AND THE GENERAL AREA.

Protective Gloves:WELDERS GLOVES AND A PROTECTIVE

FACE SHIELD.

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

Other Protective Equipment: PROVIDE PROTECTIVE SCREENS AND FLASH GOGGLES, IF NECESSAY, TO SHIELD OTHERS. WEAR HEAD, HAND, AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS AND ELECTRICAL SHOCK.

Work Hygienic Practices:AT A MINIMUM (WELDER`S GLOVES, PROTECTIVE FACE SHIELD, ARM/SHOULDER PROTECTORS, HATS, AS WELL AS DARK SUBSTANTIAL CLOTHING). TRAIN THE WELDER NOT TO TOUCH LIVE EL

ECTRICAL PARTS & TO

INSULATE HIMSELF.

Supplemental Safety and Health

VENTILATION: TRAIN THE WELDING TO KEEP HIS HEAD OUT OF THE FUMES. EYE PROTECTION: 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 WELD ZONE. PROVIDE PROTECTIVE SCREENS AND FLASH GOGGLES, IF NECESSARY, TO SHIELD OTHERS.

HCC:N1

GASEOUS REACTION MAY INCLUDE CARBON MONOXIDE AND CARBON DIOXIDE. OZONE AND NITROGEN OXIDES MAY BE FORMED BY THE RADIATION FROM THE ARC. Hazardous Decomposition Products:REASONABLY EXPECTED FUME OR GAS CONSTITUENTS OF THIS PRODUCT COULD INCLUDE PRIMARILY OXIDES OF IRON; SECONDARILY COMPLEX OXIDES OF MANGANESE, SILICON, AND ALUMINUM.

Toxicological Information:TH

RESHOLD LIMIT VALUE: THE ACGIH RECOMMENDED GENERAL LIMIT FOR WELDING FUME NOC (NOT OTHERWISE CLASSIFID) IS 5 MG/M3. THE ACGIH 1984-85 PREFACE STATES: :THE TLV-TWA SHOULD BE USED AS GUIDES IN THE CON TROL OF HEALTH HAZARDS AND SHOULD NOT BE USED AS FIRM LINES BETWEEN SAFE AND DANGEROUS CONCENTRATIONS".

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESID

UE, DISPOSABLE CONTAINER, OR

LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

SARA Title III Information:*MANGANESE AND ALUMINUM OXIDE: THE INGREDIENTS MARKED WITH AN ASTERISK ARE COVERED UNDER THE REPORTING EQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 AND OF 40 CFR 372.

Federal Regulatory Informa

tion:IMPORTANT: THE MATERIALS LISTED ARE WHAT

IS REASONABLY EXPECTED TO EXIST IN THE FUMES WHEN PRODUCT IS USED IN WELDING. THE TERM " HAZARDOUS" SHOULD BE INTERPRETED AS A TERM REQUIRED AND DEFINED IN OSH A HAZARD COMMUNICATION STANDARD (29 CFR 19100.1200) AND IT DOES NOT NECESSARILY IMPLY THE EXISTENCE OF ANY HAZARD.

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