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Product ID:ER 4047(718), INWELD ALUMINUM WIRES MSDS Date:09/01/1999 FSC:3439 NIIN:00-277-6574 Status Code:A MSDS Number: CLMPF === 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: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:ALUMINUM CAS:7429-90-5 RTECS #:BD0330000 Minumum % Wt:85. Maxumum % Wt:99.5 OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name:BERYLLIUM CAS:7740-41-7 RTECS #:DS1750000 Fraction by Wt: 0.008% OSHA PEL:SEE TABLE Z-2 ACGIH TLV:0.002 MG/M3 FUME ACGIH STEL:0.002 MG/M3 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:CHROMIUM CAS:7440-47-3 RTECS #:GB4200000 = Wt:.35 OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:COPPER CAS:7440-50-8 RTECS #:GL5325000 = Wt:6.8 OSHA PEL:1 MG/M3 ACGIH TLV:0.2 MG/M3 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 = Wt:.8 ACGIH TLV:5 MG/M3 OXIDE FUME

Ingred Name:MAGNESIUM CAS:7439-95-4 RTECS #:OM2100000 = Wt:5.5 ACGIH TLV:10 MG/M3 OXIDE FUM

Ingred Name:MANGANESE CAS:7439-96-5 RTECS #:OO9275000 = Wt:1. OSHA PEL:C5 MG/M3 ACGIH TLV:1MG/M3

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW0400000 = Wt:13. OSHA PEL:15 MG/M3 5 MG/M3 ACGIH TLV:5 MG/M3 OXIDE FUME

Ingred Name:COBALT CAS:7440-48-4 RTECS #:GF8750000 OSHA PEL:0.1 MG/M3 ACGIH TLV:0.05 MG/M3

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.

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.

First Aid:CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS. FOR SKIN CONTACT, REMOVE PARTICLES BY

THOROUGHLY WASHING WITH SOAP AND WATER. FOR EYE CONTACT, FLUSH WITH WATER FOR AT LEST 15 MINUTES, GET MEDICAL ATTENTION. FOR INHALATION, REMOVE FROM EXPOSURE, GET MEDICAL ATTENTION IF EXPERIENCING BREATHING DIFFICULTY.

Fire Fighting Procedures: REFER TO AMERICAN NATIONAL STANDARD Z-49.1 FOR FIRE PREVENTING DURING TH

E 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.

Spill Release Procedures:NOT APPLICABLE.

Handling and Storage Precautions: READ AND UNDERSTAND THE MANUFACTURES'S INSTRUCTIONS AND THE PRE

CAUTIONARY 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 TL

V.

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:WELDERS GLOVES AND A PROTECTIVE FACE SHIELD. Eye Protection:HELMET OR USE FACE SHIELD WITH FILTER LENS.

Other Protective Equipment: WEAR HEAD, HAND AND BODY PROTECTION THAT

HELP TO PREVENT INJURY FROM RADIATION, SPARKS AND ELECTRICAL SHOCK. SEE ANSI Z-49.1.

Work Hygienic Practices:AT A MINIMUM (W

ELDER^S GLOVES, PROTECTIVE FACE

SHIELD, ARM/SHOULDER PROTECTORS, HATS, AS WELL AS DARK SUBSTANTIAL CLOTHING). TRAIN THE WELDER NOT TO TOUCH LIVE ELECTRICAL 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 SC REENS AND

FLASH GOGGLES, IF NECESSARY, TO SHIELD OTHERS.

HCC:N1 Melt/Freeze Pt:M.P/F.P Text:970-1215 Spec Gravity:2.5-2.9 Solubility in Water:NIL Appearance and Odor:SOLID, METALLIC COLOR, NO ODOR.

Hazardous Decomposition Products:REASONABLY EXPETED FUMES/GASES WOULD INCLUDE METAL FUMES, OXIDES OF ALUMINUM & MAGNESIUM, CARBON MONOXIDE, CARBON DI

OXIDE, OZONE, NITROGEN OXIDES, INFRA-RED RADIATION, & ULTRA-VIOLET RADIATION.

Toxicological Information:THRESHOLD 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, RESIDUE, DISPOSABLE CONTAINER, OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

Federal Regulatory Information: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 OSHA HAZARD COMMUNICATION STANDARD (29 CFR 19100.1200) AND IT DOES NOT NECESSARILY IMPLY THE EXISTENCE OF ANY HAZARD.

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particular situation.

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