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INWELD MFG CORP -- ER 5556, INWELD ALUMINUM WIRES -- 3439-00-803-9495
========== Product Identification ==========

Product ID:ER 5556, INWELD ALUMINUM WIRES
MSDS Date:09/01/1999
FSC:3439
NIIN:00-803-9495
Status Code:A
MSDS Number: CLMNB
=== 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

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

Ingred Name:ALUMINIUM
CAS:7429-90-5
RTECS #:BD0330

000
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: 0.0008%
OSHA PEL:SEE TABLE Z-2
ACGIH TLV:0.002 MG/M3
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 AS FUME

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 AS OXIDE

Ingred Name:MAGNESIUM .
CAS:1309-48-4
RTECS #:OM3850000
= Wt:5.5
OSHA PEL:15 MG/M3
ACGIH TLV:10 MG/M3 OXIDE FUME

Ingred Name:MANGANESE
CAS:7439-96-5
RTECS #:OO9275000
= Wt:1.
OSHA PEL:C5 MG/M3
ACGIH TLV:1.5 MG/M3

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
= Wt:13.

.2
OSHA PEL:15 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

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

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 WELDIN G FUMES MAY LEAD TO SIDEROSIS (IRON D
EPOSITS 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 Measures ==========

First Aid:CALL FOR MEDICAL AID. EMP
LOY 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 Measures ==========

Fire Fighting Procedures:REFER TO AMERICAN NATIONAL STANDARD Z-49.1 FOR FIRE PREVEN
TING 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.

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

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

NS 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.

========== 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 EXP
OSURE 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: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:A
T 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 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 SCREENS AND
FLASH GOGGLES, IF NECESSARY, TO SHIELD OTHERS.

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

HCC:N1
Melt/Freeze Pt:>521.1C, 970.F
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.

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

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

ARBON
MONOXIDE, CARBON DIOXIDE, OZONE, NITROGEN OXIDES, INFRA-RED RADIATION, & ULTRA-VIOLET RADIATION.

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

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

========== 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.

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

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