

INWELD MFG CORP -- AZ61A MAGNESIUM WELDING ROD -- 3439-01-097-5992

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Product Identification
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Product ID:AZ61A MAGNESIUM WELDING ROD

MSDS Date:08/01/2000

FSC:3439

NIIN:01-097-5992

Status Code:A

MSDS Number: CLRDJ

=== Responsible Party ===

Company Name:INWELD MFG CORP

Address:3962 PORTLAND 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:EUR-PAC CORP.

Address:112 PORTER ST

Box:City:WATERBURY

State:CT

ZIP:06708

Country:US

Phone:203-756-0102 / FAX 0103

Contract Num:SP0490-98-M-BG71

CAGE:8B805

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:ALUMINUM

CAS:7429-90-5

RTECS #:BD0330000

= Wt:6.

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OSHA PEL:15 MG/M3
ACGIH TLV:10 MG/M3

Ingred Name:MANGANESE, MIN.
CAS:7439-96-5
RTECS #:OO9275000
= Wt:.15
OSHA PEL:C5 MG/M3
ACGIH TLV:5 MG/M3

Ingred Name:ZINC
CAS:7440-66-6
RTECS #:ZG8600000
= Wt:1.
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:MAGNESIUM
CAS:7439-95-4
RTECS #:OM2100000
Fraction by Wt: BAL.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:EYE: MECHANICAL HAZARD. SKIN CONTACT:

MECHANICAL HAZARD. SKIN ABSORPTION: UNLIKELY. INGESTION: UNLIKELY.
INGESTION OF LARGE AMOUNTS OF DUST COULD CAUSE SERIOUS INJURY, EVEN DEATH, BECAUSE ACUTE ORAL TOXICITY OF MAGNESIUM IS MODERATE.
INHALATION: DUST MAY CAUSE IRRITATION TO RESPIRATORY TRACT.
SYSTEMIC AND OTHER EFFECTS-EXPOSURES INCIDENTAL TO INDUSTRIAL HANDLING ARE NOT ANTICIPATED TO CAUSE ADVERSE EFFECTS. REPEATED EXCESSIVE EXPOSURE TO FUMES OR DUST OF A NUMBER OF METALS, INCLUDING

ALUMINUM. MAY CAUSE CENTRAL NERVOUS SYSTEM AND DEVELOPMENTAL EFFECTS.

Effects of Overexposure:EYE: MECHANICAL HAZARD. SKIN CONTACT: MECHANICAL HAZARD. INGESTION: SERIOUS INJURY, EVEN DEATH.
INHALATION: DUST IRRITATION TO RESPIRATORY TRACT, SYSTEMIC AND OTHER EFFECTS. REPEATED EXCESSIVE EXPOSURE TO FUMES OR DUST OF A NUMBER OF METALS, INCLUDING ALUMINUM. MAY CAUSE CENTRAL NERVOUS SYSTEM AND DEVELOPMENTAL EFFECTS.

===== First Aid Measures =====

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First Aid: EYES: IRRIGATE IMMEDIATELY WITH WATER FOR AT LEAST 5 MINUTES.
SKIN: WASH OFF DUST IN FLOWING WATER OR SHOWER. INGESTION: INDUCE VOMITING IF LARGE AMOUNTS OF DUST ARE INGESTED. CONSULT PHYSICIAN.
INHALATIONS: REMOVE TO FRESH AIR IF DUST INHALATION > CALL PHYSICIAN. NOTE TO PHYSICIAN: NO SPECIFIC ANTIDOTE FOR DUST INHALATION.

===== Fire Fighting Measures =====

Extinguishing Media: SMOTHER BURNING MAGNESIUM BY COVERING WITH

EXTINGUISHING POWDER APPROVED FOR USE ON MAGNESIUM FIRE (G, MET-L-X, ETC.). CONSULT NATIONAL FIRE PROTECTION ASSOC. FOR MORE INFORMATION.

Fire Fighting Procedures: FIRE FIGHTING EQUIPMENT SHOULD INCLUDE WEARING POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard: FIRE AND EXPLOSION HAZARDS WHEN HEATED IN AIR TO TEMP NEAR ITS MELTING POINT, MAGNESIUM ALLOYS IGNITE AND BURN WITH WHITE FLAME. WATER ON BURNING MAGNESIUM WILL PRODUCE HYDROGEN GAS AND MAY CAUSE EXPLOSION.

===== Accidental Release Measures =====

Spill Release Procedures: CLEAN OFF AND USE.

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

Handling and Storage Precautions: EXPOSURE GUIDELINE: MAGNESIUM: NONE ESTABLISHED FOR METAL; FOR OXIDE FUME, OSHA PEL IS 10 MG/M3. ALUMINUM: FOR METALS, ACGIH TLV IS 10 MG/M3 AND OSHA PEL IS 15 MG/M3 TOTAL, 5 MG/M3 RESPIRABLE. FOR FUMES ACGIH TLV AND OSHA PEL ARE 5 MG/M3. FOR SALTS AND ALKYLIS-ACGIH TLV AND OSHA PEL (CONTD. BELOW)

Other Precautions: (CONTD. FROM ABOVE) ARE 2 MG/M3. ZINC: NONE ESTABLISHED FOR METAL. ZINC OXIDE, FOR DUST, OSHA PEL IS 10 MG/M3 TOTAL DUST, 5 MG/M3 RESPIRABLE DUST AND ACGIH TLV IS 10 MG/M3 STEL. (CONTD. SEE "TOXICOLOGICAL" FOR SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING.)

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

Respiratory Protection: IN DUSTY ATMOSPHERES, USE AN AP

PROVED DUST
RESPIRATOR.

Ventilation:GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST
CONDITIONS. LOCAL EXHAUST VENTILATION MAY BE NECESSARY FOR SOME
OPERATIONS.

Protective Gloves:AS APPROPRIATE.

Eye Protection:USE SAFETY GLASSES. IF DUST EXPOSURE CAUSES EYE
DISCOMFORT USE CHEMICAL GOGGLES

Other Protective Equipment:WEAR CLEAN, LONG-SLEEVED, BODY COVERING
CLOTHING.

Work Hygienic Practices:FOR MAXIMUM SAFETY, BE CERTIFIED FOR, AND WEAR
A RESPIRATOR AT ALL TIMES WHEN W
ELDING AND OR BRAZING.

Supplemental Safety and Health

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

HCC:N1

Boiling Pt:B.P. Text:NOT DETERMINED

Melt/Freeze Pt:=618.C, #####F

M.P/F.P Text:APPROXIMATELY

Vapor Density:(AIR=1):NA

Spec Gravity:APPROX. 1.80

Evaporation Rate & Reference:NA

Appearance and Odor:SILVER SOLID. NO ODOR.

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

Stability Indicator/Materials to Avoid:YES

ACID, WATER, REACTS WITH ACID T

O FORM HYDROGEN GAS. IN FINELY DIVIDED

FORM, WILL REACT WITH WATER OR ACIDS TO RELEASE HYDROGEN.

Hazardous Decomposition Products:NONE UNDER NORMAL USE OR STORAGE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:(CONTD. FROM "OTHER PRECAUTIONS") SPECIAL
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: IF OPERATIONS
INVOLVING THIS PRODUCT, SUCH AS MACHINING, PRODUCE FINES, SUCH AS
DUS

T, POWDER, CHIPS, OR TURNINGS, PROPER MEASURE SHOULD BE TAKEN TO PREVENT DUST CLOUDS AROUND THESE OPERATIONS. THESE FINES SHOULD BE COLLECTED FREQUENTLY AND STORED AND DISPOSED OF IN ACCORDANCE WITH NATIONAL FIRE PROTECTION AGENCY GUIDELINES. IF THESE FINES SHOULD BECOME IGNITED, THEY CAN BE EXTINGUISHED USING PROCEDURES DESCRIBED IN "FIRE AND EXPLOSION HAZARD" MSDS FIELD. PRACTICE REASONABLE CARE IN HANDLING MAGNESIUM ALL OY (CONTD. SEE "ECOLOGICAL")

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===== Ecological Information =====

Ecological:(CONTD. FROM "TOXICOLOGICAL") PRODUCT FORMS TO AVOID PRODUCT DAMAGE OR PERSONAL INJURY. STORE PRODUCT IN DRY LOCATION. WET, MOIST, HIGH HUMIDITY STORAGE MAY LEAD TO CORROSION OF THE PRODUCT. STORE AWAY FROM OTHER COMBUSTIBLE MATERIALS. SEE NATIONAL FIRE PROTECTION ASSOC. BULLETINS NFPA 651, "MANUFACTURE OF ALUMINUM AND MAGNESIUM POWDER" FOR MORE DETAILED INFORMATION, SARA HAZARD INFO, UNDER EPA "HAZARD CATEGORIES" UNDER SECTION 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III). THIS PRODUCT IS CONSIDERED, UNDER APPLICABLE DEFINITION, NOT TO HAVE MET ANY HAZARD CATEGORY.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

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