

DOW CHEMICAL U.S.A., GOVERNMENT MARKETING -- EXT MAGNESIUM WELDING ROD AZ92A --  
3439-00-204-3279

===== Product Identification =====

Product ID:EXT MAGNESIUM WELDING ROD AZ92A

MSDS Date:11/07/1992

FSC:3439

NIIN:00-204-3279

MSDS Number: BRDHW

=== Responsible Party ===

Company Name:DOW CHEMICAL U.S.A., GOVERNMENT MARKETING

Address:2020 DOW CENTER

City:MIDLAND

State:MI

ZIP:48640-6030

Country:US

Info Phone Num:517-636-1000

Emergency Phone Num:517-636-4400

CAGE:9671

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=== Contractor Identification ===

Company Name:DOW CHEMICAL CO

Address:100 LARKIN CENTER

Box:City:MIDLAND

State:MI

ZIP:48674

Country:US

Phone:800-258-2436

CAGE:96717

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:ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000

Fraction by Wt: 9.0%

Other REC Limits:NONE RECOMMENDED

OSH

A PEL:15MG/M3 DUST/5 FUME  
ACGIH TLV:10MG/M3 DUST; 9293

Ingred Name:ZINC (SARA III)  
CAS:7440-66-6  
RTECS #:ZG8600000  
Fraction by Wt: 2.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG ZNO/M3  
ACGIH TLV:10 MG ZNO/M3; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:MANGANESE (SARA III)  
CAS:7439-96-5  
RTECS #:OO9275000  
Fraction by Wt: 0.15%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:(C) 5 MG/M3 DUST  
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:MAGNESIUM  
CAS:7439-95-4  
RTECS #:OM2100000  
Fraction by Wt: BAL.  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:UNCLASSIFIED WELDING FUMES=5MG/M3 PEL  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYE-MECHANICAL INJURY ONLY. SKIN  
CONTACT-MECHANICAL INJURY ONLY. MOLTEN MATERIAL MAY BURN SKIN.  
INGESTION-INGESTION IS UNLIKELY DUE TO PHYSICAL STATE. HOWEVER,  
INGESTION OF LARGE AMOUNTS OF DUST COULD CAUSE SERIOUS INJURY,  
EVEN DEATH. INHALATION-DUST MAY CAUSE IRRITATION TO UPPER  
RESPIRATORY TRACT.  
Explanation of Carcinogenicity:NOT A CANCER CAUSING AGENTS.  
Effects of Overexposure:THE ACUTE ORAL TOXICITY OF MAGNESIUM IS  
CONSIDERED MODERATE.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYE-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 MEDICAL PERSONNEL. I NHALATION-REMOVE TO FRESH AIR IF DUST INHALATION EFFECTS OCCUR. CONSULT A PHYSICIAN.

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

Flash Point:NONE.

Extinguishing Media:SMOTHER BURNING MAGNESIUM BY COVERING WITH AN EXTINGUISHING POWDER APPROVED FOR USE ON MAGNESIUM FIRES SUCH AS MET-L-X.

Fire Fighting Procedu

res:WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:WHEN HEATED IN AIR TO A TEMPERATURE NEAR ITS MELTING POINT, MAGNESIUM ALLOYS IGNITE & BURN WITH A WHITE FLAME.USE OF WATER WILL PRODUCE HYDROGEN GAS & EXPLODE.

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

Spill Release Procedures:CLEAN OFF AND USE.

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

Handling and Storage Precautions:STORE PRODUCT IN DRY LOCATION. WET,

MOIST OR HIGH HUMIDITY STORAGE CONDITIONS WILL LEAD TO CORROSION OF THE PRODUCT. STORE AWAY FROM OTHER COMBUSTIBLE

Other Precautions:PRACTICE REASONABLE CARE IN HANDLING MAGNESIUM AND MAGNESIUM ALLOY PRODUCTS FORMS TO AVOID DAMAGE AND/OR PERSONAL INJURY.

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

Respiratory Protection:NO RESPIRATORY PROTECTION SHOULD BE NEEDED.

Ventilation:GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CON

DITIONS. LOCAL EXHAUST MAY NE NECESSARY FOR SOME OPERATIONS.

Protective Gloves:NO PRECAUTION.

Eye Protection:USE SAFETY GLASSES.

Other Protective Equipment:CLEAN BODY COVERING CLOTHING SHOULD BE NEEDED. MECHNAICAL INJURY ONLY - MOLTEN MATERIAL WILL BURN SKIN.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDER CONTAMINATIED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

REACTS WITH ACID TO FORM HYDROGEN GAS. IN FINELY DIVIDED FORM, WILL REACT WITH WATER O

R ACID TO RELEASE HYDROGEN.

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:830F,443C

Spec Gravity:1.82

Appearance and Odor:SILVER SOLID. NO ODOR.

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

Stability Indicator/Materials to Avoid:YES

ACID, WATER.

Stability Condition to Avoid:STABLE UNDER NORMAL HANDLING CONDITIONS.

Hazardous Decomposition Products:NONE UNDER NORMAL USE OR STORAGE.

===== Disposal

Considerations =====

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

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