

MATERIAL SAFETY DATA SHEET

THERMACOTE WELCO, HWY161, YORK RD. Emergency Phone: 704-739-6421
KINGS MTN., N.C. 28086

PRODUCT NAME: EXT MAGNESIUM WELDING ROD AZ92A

Effective Date: 08/05/80 Date Printed: 10/16/85 Product Code: 36786

1. INGREDIENTS:

Aluminum	9.0%
Zinc	2.0%
Manganese	0.15%
Beryllium	0.0005%
Magnesium	BAL.

2. PHYSICAL DATA:

BOILING POINT: ----
VAP PRESS: Not applicable
VAP DENSITY: Not applicable
SOL. IN WATER: Not applicable
SP. GRAVITY: Approximately 1.82
MELTING POINT: Approximately 830F, 443C
APPEARANCE: Silver solid.
ODOR: No odor.

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: None
METHOD USED:

FLAMMABLE LIMITS
LFL: Not applic.
UFL: Not applic.

EXTINGUISHING MEDIA: Melting flux, dry sand, metal extinguishing powders such as G1, Met-L-X, etc.

FIRE & EXPLOSION HAZARDS: When heated in air to a temperature near its melting point, magnesium alloys ignite and burn with a white flame. Use of water on molten magnesium will produce hydrogen gas and may cause an explosion.

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3. FIRE AND EXPLOSION HAZARD DATA: (CONTINUED)

FIRE-FIGHTING EQUIPMENT: Not available.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID)

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Acid, water.
Reacts with acid to form hydrogen gas. In finely divided form,
will react with water and acids to release hydrogen.

HAZARDOUS DECOMPOSITION PRODUCTS:

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Clean off and use.

DISPOSAL METHOD:

6. HEALTH HAZARD DATA:

EYE: No problem - mechanical injury as from any foreign body.

SKIN CONTACT: No problem - mechanical injury as from any foreign
body.

SKIN ABSORPTION: No problem - not absorbed through the skin in
toxic amounts.

INGESTION: No problem because of physical form. Moderately
toxic if ingested. LD50 for dogs 230-280 mg/kg (magnesium).

INHALATION: No guide for control known. If dust is generated,
it may be a nuisance.

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6. HEALTH HAZARD DATA: (CONTINUED)

SYSTEMIC & OTHER EFFECTS: Not applicable.

7. FIRST AID:

EYES: Mechanical injury only. Irrigation of the eye immediately with water for five minutes is good safety practice.

SKIN: No special first aid needed.

INGESTION: No special first aid needed.

INHALATION: No special first aid needed.

NOTE TO PHYSICIAN:

Eyes: Stain for evidence of corneal injury.

8. HANDLING PRECAUTIONS:

VENTILATION:

RESPIRATORY PROTECTION: None needed.

SKIN PROTECTION: Fire-resistant clothing and gloves desirable around melting or heat treat operations. Use gloves for handling metal.

EYE PROTECTION: Not normally necessary.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Practice reasonable care in handling magnesium and magnesium alloy product forms to avoid product damage and/or personal injury. Store product in dry location. Wet, moist or high humidity storage conditions will lead to corrosion of the product. Store away from other combustibles. See National Fire Protection Association bulletin NFPA 48, "Storage, Handling and

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9. ADDITIONAL INFORMATION: (CONTINUED)

Processing of Magnesium¹¹ for detailed storage information.

MSDS STATUS: Revised 1 and 2.

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