



## Section 1 Identification

<b>Product Identifier</b>	Magnesium Anodes
<b>Synonyms</b>	N/A
<b>Product Code(s)</b>	High Potential Magnesium Anode
<b>UN Number</b>	None allocated
<b>Manufacturer</b>	Bren Technologies Inc. 231 King Street, Barrie, Ontario, L4N 6B5. Canada <a href="http://www.petrocoatingsystems.com">www.petrocoatingsystems.com</a>  Business: 905-951-8118 Facsimile: 905-951-2215
<b>Recommended Use</b>	Cathodic protection systems.
<b>SDS Issue Date</b>	January 1, 2019

## Section 2 Hazard identification

<b>Physical Hazards</b>	Not Classified
<b>Health Hazards</b>	Not Classified
<b>Environmental Hazards</b>	Not Classified
<b>Label Elements</b>	
<b>Hazard Symbol</b>	None
<b>Signal Word</b>	None
<b>Hazard Statement</b>	The product does not meet the criteria for classification.
<b>Precautionary Statements</b>	
<b>Prevention</b>	Observe good industrial hygiene practices.
<b>Response</b>	Wash thoroughly after handling.
<b>Storage</b>	Store products away from incompatible materials and in a manner that prevents the product from falling.
<b>Disposal</b>	Disposal should be in accordance with local state and federal regulations. This product is not a hazardous waste.
<b>Other Hazards</b>	None known
<b>Supplemental Information</b>	None

### Section 3 Composition/information on ingredients

Exposure limits for individual ingredients of these products are as follows:

Chemical	%	CAS/PIN	LD <sub>50</sub>	LC <sub>50</sub>
Magnesium	25-50%		N/A	N/A
Bentonite	5-8%	14808-60-7	N/A	N/A
Sodium Sulphate	2-3%	7757-82-6	N/A	N/A
Gypsum	26-37%	10101-41-4	N/A	N/A

### Section 4 First-aid measures

Inhalation	Remove patient to fresh air. Apply artificial respiration if victim is not breathing. Seek medical attention.
Skin Contact	Wash skin with warm water and mild soap.
Eye Contact	Flush eyes with water until relieved, seek medical advice.
Ingestion	If uncomfortable, seek medical advice.

### Section 5 Fire-fighting measures

**Flammability:** Dust or powder may be flammable or explosive. Magnesium filings are extremely explosive in high concentrations in the air.

**Means of Extinguishing:** Use dry chemical suitable for metal fires.

**Special Procedures:** Use a NIOSH approved self-contained breathing apparatus.

**Flash Point:** N/A

**Auto Ignition Temperature:** N/A

**Lower Explosion Limit:** N/A

**Upper Explosion Limit:** N/A

**Explosion Data – Sensitivity to Mechanical Impact:** N/A

**Explosion Data – Sensitivity to Static Discharge:** N/A

### Section 6 Accidental release measures

Keep unnecessary personnel away.

Shovel rather than sweep to avoid creating excess dust.

Disposal should be in accordance with local regulations.

### Section 7 Handling and storage

No special storage or transport requirements are necessary. **Anodes over 60 lbs. should be lifted by two people.**

## Section 8 Exposure controls/personal protection

<b>Respiratory Protection</b>	Not required except in case of fire.
<b>Gloves</b>	Required.
<b>Footwear</b>	Steel toed boots required.

## Section 9 Physical and chemical properties

<b>Physical State</b>	Solid
<b>Appearance</b>	Odourless silver metal packaged in a cardboard tube or cotton bag.
<b>Odour Threshold</b>	Nil
<b>pH</b>	N/A
<b>Specific Gravity</b>	1.74 kg/L (magnesium)
<b>Evaporation Rate</b>	N/A
<b>Vapour Density</b>	N/A
<b>Vapour Pressure</b>	Nil at room temperature.
<b>Boiling Point</b>	605 <sup>o</sup> (magnesium)
<b>Melting Point</b>	1090 <sup>o</sup> (magnesium)
<b>Coefficient of Water/Oil Distribution</b>	N/A

## Section 10 Stability and reactivity

<b>Reactivity with Common Substances</b>	Contact with acid liberates explosive hydrogen gas.
<b>Chemical Incompatibility</b>	Acids, alkalis, strong oxidizing agents, water.
<b>Hazardous Decomposition Products</b>	None
<b>Chemical Stability</b>	Stable

## Section 11 Toxicological information

		<b>Routes of Entry:</b> Eye contact, inhalation, ingestion	<b>Effect of Acute Exposure:</b> Inhalation of fumes may cause zinc fume fever, resulting in flu-like symptoms.
<b>Exposure Limits</b>	<b>TLV (mg/m<sup>3</sup>)</b>	<b>Mutagenicity:</b> Unknown	<b>Carcinogenicity:</b> Unknown
Magnesium	5		
Sodium Sulphate	5		
Bentonite	5		
Gypsum	5		
<b>Reproductive Toxicity:</b> Unknown	<b>Irritancy:</b> Slight	<b>Teratogenicity:</b> Unknown	<b>Sensitisation:</b> Unknown

## Section 12 Ecological information

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large and frequent spills can have a harmful or damaging effect on the environment.

## Section 13 Disposal consideration

If required, clean up area with a proprietary degreasing cleaner. Disposal should be in accordance with local regulations. This product is not a hazardous waste.

## Section 14 Transport information

This product is not regulated as dangerous goods. No special storage or transport requirements are necessary. Containers should be kept closed in or to minimize contamination. Keep dry and away from extreme heat.

## Section 15 Regulatory information

**Canadian Regulations:** this product contains all necessary information required for the SDS.

**International Regulations:** not applicable.

## Section 16 Other information

**Issue date:** January 1, 2019

**Revision date:** January 1, 2019

**Version number:** 01

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