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|  | Safety Data Sheet | |
| | Material Description | Date Issued |
| | Zinc / Zinc Anode | November 2018 |
| | | Last Revision |
| | | January 2019 |

| Section 1 Identification | |
|---------------------------------|--|
| <i>Product Name:</i> | Zinc Anode |
| <i>Formula:</i> | Zn (+ <0.5% Al) |
| <i>Manufacturer Name:</i> | Galvotec Alloys, Inc. 6712 S. 36TH Street McAllen, TX 78503, USA Tel: (956)630-3500 |
| <i>Emergency Tel:</i> | N/A |
| <i>Recommended Use:</i> | Cathodic Protection |
| <i>Restricted Use:</i> | N/A |

| Section 2 Hazard (S) Identification | | | | | | | |
|--|--|-------|---|-----------|---|--------|---|
| <i>Description of Risk:</i> | Reacts with water releasing flammable gases. | | | | | | |
| <i>Labeled:</i> | <table> <tr> <td>Heath</td><td>2</td></tr> <tr> <td>Flammable</td><td>0</td></tr> <tr> <td>Hazard</td><td>0</td></tr> </table> | Heath | 2 | Flammable | 0 | Hazard | 0 |
| Heath | 2 | | | | | | |
| Flammable | 0 | | | | | | |
| Hazard | 0 | | | | | | |
| <i>Information:</i> | This substance does not represent a greater danger however, its salts can be dangerous since zinc is a heavy metal | | | | | | |
| <i>Tips:</i> | Use the appropriate protective equipment to protect your airways and skin | | | | | | |

| Section 3 Composition / Information on Ingredients | |
|---|------------|
| <i>Chemical Name:</i> | Zn |
| <i>Trade Name:</i> | Zinc Anode |
| <i>CAS No.:</i> | 7647-01-0 |
| <i>EC No.:</i> | N/A |
| <i>NFPA Rating:</i> | N/A |



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Section 4 First-aid Measures

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| <i>Eye Contact:</i> | <i>Symptoms: Mild eye irritation, redness. Do not rub eyes, let the eyes water work naturally, or rinse eye with flowing water for 5 minutes. If eye irritation persists, get medical attention.</i> |
| <i>Skin Contact:</i> | <i>If irritation occur, rinse gently with flowing water for 15 minutes. If irritation persists, get medical attention.</i> |
| <i>Inhalation:</i> | Remove immediately from exposure to fresh air. |
| <i>Effects by exposure Eye contact:</i> | It can generate irritation, burning and tearing |
| <i>The dermal contact:</i> | Irritation on the skin |
| <i>Ingestion:</i> | Symptoms: upset stomach, nausea, diarrhea. If swallowed, no specific intervention is indicated as this material is not likely to be hazardous by ingestion. |

Section 5 Fire-fighting Measures

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| <i>Flash Point:</i> | N/A |
| <i>Auto-Ignition Temperature:</i> | N/A |
| <i>Flammable Limits:</i> | N/A |
| <i>LEL:</i> | N/A |
| <i>UEL:</i> | N/A |
| <i>Extinguishing Media:</i> | Dry Chemical |
| <i>Unusual Fire and Explosion Hazards:</i> | Water contact with molten metal may cause sudden expansion and massive splashing of hot metal. |
| <i>Protective Fire-Fighting Equipment:</i> | Use approved self-contained breathing apparatus. |



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Section 6 **Accidental Release Measures**

*Action to take for
spills and leaks:*

In case of spill, zinc can be safely swept, shoveled or picked up by hand and returned to original container.

Section 7 **Handling and Storage**

Handling:

Without particular indications. Maintain hygiene standards, do not smoke, do not eat at the workplace. Wash hands after using the product.

Storage:

Dry environment, away from sources of ignition and extreme heat.

Section 8 **Exposure Controls / Personal Protection**

Exposure Limits:

Threshold Limit Value: 5 mg/m³ for zinc oxide fumes

Effects of Overexposure: Chronic inhalation may produce fever and chills without recognized complications.

Eye Protection:

Safety Glasses required for fumes, dust or heat

Skin Protection:

Gloves required for hot metal

*Respiratory
Protection:*

Approved respirator for dust or fumes



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Section 9 **Physical and Chemical Properties**


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| <i>Physical State:</i> | Solid |
| <i>Boiling Point:</i> | 908 °C (1665 °F) |
| <i>Melting Point:</i> | 420 °C (788 °F) |
| <i>Specific Gravity:</i> | 7.13 (H ₂ O = 1) |
| <i>Vapor Density Air:</i> | N/A |
| <i>Vapor Pressure:</i> | N/A |
| <i>Solubility in Water:</i> | Insoluble |
| <i>Appearance:</i> | Silver White Metal |
| <i>Odor:</i> | None |
| <i>Evaporation Rate:</i> | N/A |
| <i>Percent Volatile by Volume:</i> | N/A |

Section 10 **Stability and Reactivity**

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| <i>Stability:</i> | Stable |
| <i>Incompatibility (Materials to avoid):</i> | Contact with strong acids or alkali. |
| <i>Hazardous Decomposition Products:</i> | At temperatures above the melting point, zinc oxide fumes may be formed. |
| <i>Hazardous Polymerization:</i> | Will not occur |

Section 11 **Toxicological Information**

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| <i>Eye:</i> | It does not present adverse risks. Generally not toxic. |
| <i>Skin absorption:</i> | Yes |
| <i>Skin contact:</i> | Yes |
| <i>Ingestion:</i> | No |
| <i>Inhalation:</i> | Yes |
| <i>Systematic & Other Effects:</i> | Immediate effects such as irritation, gastrointestinal or respiratory irritation |

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Section 12 **Ecological Information**

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|---------------------------------------|---|
| <i>Ecotoxicity:</i> | EC50 test (mg / l) Fish = 0.1 mg / l; Risk for the aquatic environment = Medium, Risk for the land environment = Medium |
| <i>Persistence and Degradability:</i> | This compound is easily transformed, being used for the production of other substances required for body functioning. |
| <i>Bio-Accumulative Potential:</i> | Bioaccumulable |
| <i>Mobility in Soil:</i> | Little mobility in soil |

Section 13 **Disposal Consideration**


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|----------------------------|---|
| <i>Method of Disposal:</i> | N/A |
| <i>Safe Handling:</i> | What cannot be conserved for recovery or recycling must be managed for the disposal of adequate and approved waste. |

Section 14 **Transport Information**

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|----------------------------------|----------------|
| <i>ONU Number:</i> | Not applicable |
| <i>ONU Proper Shipping Name:</i> | Not applicable |
| <i>Transport Hazard Class:</i> | Not applicable |

Section 15 **Regulatory Information**

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| <i>Notice:</i> | The information herein is presented in good faith and believed to be accurate as of the issued date shown. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its use complies with all federal, state and local laws and regulations. |
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Section 16 Other Information

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| <i>R phrases:</i> | <p>R 10 Flammable.</p> <p>R15 reacts with water releasing extremely flammable gases.</p> <p>R50 / 53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> |
| <i>S phrases:</i> | <p>S43: in case of fire, use area</p> <p>S46: Never use water</p> <p>S60: If swallowed, seek medical advice immediately and show the container or label.</p> <p>S61: Dispose of the product and its container as hazardous waste. Avoid release to the environment.</p> |
| <i>Information.</i> | <p>The information in this Safety Sheet is based on current knowledge, in that the User's working conditions are beyond our knowledge and control. The product should not used for purposes other than those specified, without first having a written instruction from its management It is always the responsibility of the user to take the necessary measures in order to comply with the requirements established in the legislations.</p> |