B221563

Galvotec	Safety Data Sheet	Date Issued
		November 2018
	Material Description	Last Revision
	Magnesium Alloy H1	January 2019

Section 1 Identification

Product Name:	Magnesium Anode
Manufacturer Name:	Galvotec Alloys, Inc. 6712 S. 36TH Street McAllen, TX 78503, USA Tel: (956)630-3500
Emergency Tel:	N/A
Recommended Use:	Various
Restricted Use:	Avoid contact with acid and water

Section 2 Hazard (s) Identification

Relevant information:	Toxic gases and vapors may be released if involved in a fire. Slightly hazardous in case of skin contact, eye and ingestion.
Hazard description:	Solid flammable hazards to the environment.
Precautionary:	Use protective equipment indicated to protect their respiratory system and skin.
Labeled:	**Health 0** **Flammable 1** **Hazard 1**

Section 3 Composition / Information on Ingredients

Chemical Name:	Mg
Trade Name:	AZ Com
CAS No.:	7439-95-4
EC No.:	231-104-6
NFPA Rating:	0-1-2-W

Section 4	First-aid Measures
Eye contact:	Wash immediately with water for at least 15 minutes, lift and separate the eyelids to ensure the removal of the chemical, if the irritation persists repeat the wash and seek medical attention immediately.
Skin contact:	Remove contaminated clothing and footwear, wash the affected area with plenty of water and soap, at least 15 minutes, if the irritation persists, repeat the washing.
Inhalation:	Remove to fresh air if inhalation effects occur. If not breathing, administer artificial respiration. If you breathe with difficulty supply oxygen. Keep the victim warm and at rest
Ingestion:	Wash your mouth with water. If you are conscious, give plenty of water, do not induce vomiting. Keep the victim warm and at rest.
Effects Eye contact:	Burns, Redness.
Dermal contact:	Irritations, the penetration of the product, causes wounds of difficult healing
Inhalation:	It irritates the respiratory tract
Medical care: Treatment	N/A
Delayed effects:	Can cause gastrointestinal disorders, loss of appetite, weight loss
Known antidotes:	N/A

Section 5 Fire-fighting Measures

Flash Point:	Approximately 500 °C (932 °F)
Auto-Ignition Temperature:	648 °C (1202 °F)
Flammable Limits:	N/A
LEL:	N/A
UEL:	N/A • Very finely divided, magnesium can be ignited at air temperatures below 482 °C (800 °F)
Extinguishing Media:	Smother burning magnesium by covering with a metal extinguishing powder approved for use on magnesium fires such as G1 and MET-L-X.
Unusual Fire and 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 explosion.
Protective Fire-Fighting Equipment:	Wear positive pressure self-contained breathing apparatus. Smother fires with dry graphite or other suitable dry powders. Do not use foam, halogenated extinguishing agents, or carbon dioxide. Protect eyes and skin against flying particles.

Section 6 Accidental Release Measures

Action to take for spills and leaks:	Restrict access to unnecessary people without proper protection. Clean and reuse, work in cool and well ventilated areas. Do not allow it to fall into water sources and sewers

Section 7 Handling and Storage

Handling:	No special gear required.
Storage:	Store in a dry, close place

Section 8 Exposure Controls / Personal Protection

Exposure Limits:

Ingredient	CAS#	OSHA-PEL TWA *A	OSHA-PEL STEL *A	ACGIH-TLV TWA *A	ACGIH-TLV STEL *A	Typical %
Magnesium	7439-95-4 Fume / Dust	10A / (5A Resp)	-	10A	-	85 - 99
Aluminum	7429-90-5 Fume / Dust	5A / 15A (5A Resp)	-	5A / 10A (5A Resp)	-	0 - 20
Zinc	7440-88-6 Fume	5A	10A	5A	10A	0 - 5

SARA SECTION 313: If the above ingredients are underlined, they are listed in 40 CFR 372.65 Superfund Amendments and Reauthorization Act (SARA) Section 313, and are present in quantity greater than the "de minimum" concentration. Therefore, those underlined ingredients are subject to the reporting requirements of SARA Section 313.

Eye Protection:	Not necessary. Safety glasses are required when cutting solid pieces.
Skin Protection:	Not necessary, gloves for the loaders. All employees should wash their hands before eating any food or drink.
Respiratory Protection:	Wear a mask in a dusty atmosphere.

Section 9 Physical and Chemical Properties

Physical State:	*Solid*
Boiling Point:	1110 °C (2030 °F)
Melting Point:	636-649 °C (1176-1200 °F)
Specific Gravity:	1.75 (H_2O = 1)
Density:	1.65-1.74 g/cm^3
Vapor Density Air:	N/A
Vapor Pressure:	N/A
Solubility in Water:	N/A
Appearance:	Silver or grey solid
Odor:	None
Evaporation Rate:	N/A
Percent Volatile by Volume:	N/A

Section 10 Stability and Reactivity

Stability:	Stable at ambient conditions. Reacts violently with halogens, chlorinated solvents, chloromethane. Air and moisture sensitive. Highly flammable.
Incompatibility (Materials to avoid):	Acid and water. Magnesium reacts with acid or water to form hydrogen gas. If finely divided, its propensity to react and the reaction rate will increase.
Hazardous Decomposition Products:	None under normal use or storage. See incompatibility statement above and fire and explosion hazard data in Article III for special situations.
Hazardous Polymerization:	Will not occur.

Section 11 Toxicological Information

Eye:	Mechanical injury only
Skin absorption:	Skin absorption is unlikely due to physical properties.
Skin contact:	Mechanical injury only
Ingestion:	Ingestion is unlikely due to physical state. If dusts are produced, amounts ingested incidental to industrial handling are not likely to cause injury; however, ingestion of larger amounts could cause serious injury or even death (acute oral toxicity of magnesium is considered moderate).
Inhalation:	Dust may cause irritation to upper respiratory tract.
Systematic & Other Effects:	Based on available date, repeated exposures are not anticipated to cause any significant adverse effects.
Effects immediate	Irritation
Long-term Effects	Gastrointestinal disorders, lack of appetite, weight loss.

Section 12 Ecological Information

Ecotoxicity:	This product is not considered harmful to aquatic or terrestrial organisms, neither cause long-term adverse effects to the environment.
Persistence and Degradability:	N/A
Bio-Accumulative Potential:	Not established
Mobility in Soil:	No information available

Section 13 Disposal Consideration

Method of Disposal:	Metal boxes (box should include lid in case of powder or shavings).
Safe Handling:	N/A

Section 14 Transport Information

UN Number:	N/A
UN Proper Shipping Name:	Not applicable
Proper shipping name UN	N/A
Transport Hazard Class:	N/A

Section 15 Regulatory Information

Notice:	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.

Section 16 Other Information

R phrases *R 11*	Easily flammable
R 15:	It reacts with water releasing extremelly flammable gases.
R 35:	It causes burns.
S phrases: *S 7/8*	Keep the container tightly closed and in a dry place
S 43f	In case of fire, use sand or fire extinguisher class D.
Revision	Issued November 2018