

PRODUCT - SAFETY DATA SHEET (SDS) Issued Date – Aug. 21, 2018

Revision Number: 1.20

	Section 1. Product and Co	mpany Identification	
Product Type:	Plastalloy™ - Bonded Magnets Flexible Magnet None Identified	Code:NoneItem #:P1, P1A & FRegion:United State	
	The Electrodyne Company 4188 Taylor Road Batavia, Ohio 45103 USA	Contact Information:Telephone #1-513-732-Fax #:1-513-732-Web Site:www.edyr	-6953
	Section 2. Hazard Id	lentification	
	EMERGENCY OV	/ERVIEW	
hazard. However, use or properformance of the product	der reasonable conditions and in accordance wit ocessing of the product in a manner not in accord	dance with the production's dir	
Under standard conditions of use, this product is not expected to create any unusual emergency hazards. This is a non-combustible, non-reactive solid material. Use methods suitable to fight surrounding fire. Contact with the eye may result in unintentional rubbing irritation characterized by itching or redness. Due to product form, exposures to dusts and fumes are not expected to occur. NOTE: If this product is cut with power cutting equipment (such as saws, drilling, grinding or sanding equipment), dust generated may cause eye, skin, respiratory irritation and/or congestion in extreme cases. Prolonged and excessive skin contact may result in slight irritation.			
Use proper of safety cutting equipment.	and protection apparatus (Safety Glasses, Res	spiratory Equipment, etc.) is re	commended when using power
	Hazard Class		Hazard Category
Skin Irritation:			0
Eye Irritation:			0
Ingestion:	Inhalation: 0 Ingestion: 0		
Ingootion	GHS Pictogram		
Hazard Statement: Warning – Material that is magnetized "Only" - Individuals with pacemakers, other medical electronic devices or metallic implants, magnetized material may affect operation of the device, do not handle, seek medical advice.			
	Fire: 4 Physical Hazard: 0 mal Hazard 4 = Slight Hazard 3 = Mo	oderate Hazard 2 = Serio	us Hazard 📕 1 = Severe Hazard
Precautionary Statements			
Skin: This product may produce skin abrasions.			
Prevention: Response:	Avoid mechanical rubbing as it may increase skin irritation. Wash thoroughly after handling. Wash exposed skin with soap and water. If irritation develops or persists,		
Response.	seek medical attention.		
Eye:	Particulates from this product may cause slight irritation or discomfort of the eye from cutting, sanding, grinding or drilling of this product.		
Prevention:	Avoid unintentional scratching or rubbing irritation of the eye, could result in permanent cornea damage.		
Response:	Rinse/Flush eyes cautiously with copious/larg Remove contact lenses, if present and easy to	ge amounts of water for 5-15 m	inutes while holding eyelids open.

Precautionary Stateme	nts (Continued)
Inhalation:	Inhalation of dusts produced during cutting, drilling, grinding or sanding of this product may cause irritation of the respiratory tract.
Prevention:	Avoid inhalation/breathing dust when cutting, drilling, grinding or sanding of this product. Use only in well-ventilated area.
Response:	If inhaled, remove person to fresh non-contaminated air, if breathing is difficult. Keep the person comfortable for breathing. If not breathing, give artificial respiration, preferably mouth to mouth. (CPR). Get medical attention immediately.
Ingestion: Prevention: Response:	Product is not intended to be ingested or eaten. Not a likely route of entry. Do not eat or ingest this product. If the product is ingested, do not induce vomiting. Seek medical attention, immediately.
Product Storage:	Protect material against physical damage. Product should be kept dry and be protected from the elements. Store material at room temperature - normal conditions and should be kept out of direct sunlight. Warehouse storage should be in accordance with package directions, if any.
Disposal	Dispose of content and/or container in accordance with Federal, State/Provincial, Local Governmental, Regional, National, and/or International Regulations requirements. Note: This product should not be burned as construction waste.
	Note. This product should not be burned as construction waste.

Classification complies with OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 12 for Ecological Informati	on			
Section 3. Composition/Information on Ingredients				
Ingredients (specific)	Formula:	%	CAS Number	Chemical Family
Ferrite; Strontium Dodecairon	Fe ₁₂ O ₁₉ Sr	91.043	12023-91-5	Strontium Ferrite
2-Propenenitrile, polymer with 1,3-butadiene	C ₂₁ H ₂₇ N ₃ X ₂	7.479	9003-18-3	Acrylonitrile/Butadiene Copolymer
Sulfur, Homopolymer	(S)n	0.117	9035-99-8	Insoluble sulfur
Stearic Acid - RG	CH ₁₈ H ₃₆ O ₂	0.036	57-11-4	Acids, Carboxylic
Benzenamine,N-phenyl-, reaction productswith2,4,4-trimethylpentene	C ₂₀ H ₂₇ N	0.169	68411-46-1	Octylated Diphenylamine's
Trade Secret	N/A	0.062 – 1.156	N/A	No SVHC Chemicals present

See Section 11 for Toxicological Information.

	Section 4. First-Aid Measures
Description of first aid measures	
Skin contact	 Avoid mechanical rubbing as it may increase skin irritation. Wash thoroughly after handling. Wash exposed skin with soap and water. If irritation develops or persists, seek medical attention.
Eye Contact	• Particulates from this product may cause slight irritation or discomfort of the eye from cutting, sanding, grinding or drilling of this product. Rinse/Flush eyes cautiously with copious/large amounts of water for 5-15 minutes while holding eyelids open. Remove contact lenses, if present and easy to remove. Continue to rinse. If eye irritation persists, get medical attention.
Inhalation	• Inhalation of dusts produced during cutting, drilling, grinding or sanding of this product may cause irritation of the respiratory tract. If inhaled, remove person to fresh non-contaminated air, if breathing is difficult. Keep the person comfortable for breathing. If not breathing, give artificial respiration, preferably mouth to mouth. (CPR). Get medical attention immediately.
Ingestion	 If the product is ingested, Do Not induce vomiting. If person is drowsy or unconscious and vomiting, place on the left side with head down. Seek medical attention, immediately.

	Section 5. Fire-Fighting Measures
Extinguisher Media:	
Suitable extinguishing media:	• H ₂ O, ABC [*] - Use any media suitable for the surrounding fires. Water, spray, fog, carbon dioxide (CO2), dry chemical, foam.
Unsuitable extinguishing media:	None
Special firefighting procedures:	 Not Necessary Note: * Material will smolder when preheated to 850°F (454° C)
Sect	ion 5. Fire-Fighting Measures (Continued)
Extinguisher Media (Continued):	
Unusual fire or explosion hazards:	Not Applicable
Hazardous combustion products:	 None known - The decomposition products from this material are those that would be expected from any organic (carbon-containing) material, and are mainly derived from pyrolysis or burning of the polymer.
	Note: This product should not be burned as construction waste.
Advice for firefighters:	 Promptly isolate the scene by removing all persons from the vicinity of the incident, if there is a fire. Wear appropriate protective equipment including respiratory protection as conditions warrant.
	Special Fire Fighting Procedures - Not Necessary Note: * Material will smolder when preheated to 850°F (454°C)
	Section 6 - Accidental Release Measures
	ded in Section 8 and emergency procedures
Personal Precautions:	• Avoid breathing dust. when cutting, drilling, grinding or sanding of this product may cause irritation of the respiratory tract. Wear appropriate protective equipment including respiratory protection as conditions warrant. Provide adequate ventilation Wear appropriate respirator when ventilation is inadequate.
Evacuation & Special Procedure:	None necessary
For emergency responders:	• Keep unauthorized personnel away. Avoid breathing dust. if product was processed by when cutting, drilling, grinding or sanding of this product. Wear appropriate protective equipment including respiratory protection as conditions warrant. Provide adequate ventilation Wear appropriate respirator when ventilation is inadequate.
Environmental precautions: Clean-up methods:	 No Special handling. Material may be magnetized. Sweep up or gather material and place in appropriate container for disposal. Note: This product should not be burned as construction waste.
	 Dispose of content and/or container in accordance with Federal, State/Provincial, Local Governmental, Regional, National, and/or International Regulations requirements.
	Note: This product should not be burned as construction waste.
	Section 7. Handling and Storage
Precautions for safe handling	Section 7. Handling and Storage
Handling	 Use only with adequate ventilation. If product is being processed by cutting, grinding or sanding, avoid mechanical rubbing as it may increase skin irritation. Prevent contact with eyes. Do not breathe dust. Customary personal hygiene measures, such as washing hands after working with these products are recommended.
Conditions for safe storage, includi	
Storago	Protect material against physical damage. Product should be kept dry and be

Conditions for sale storage, inc	
Storage	 Protect material against physical damage. Product should be kept dry and be protected from the elements away from heat, sparks and open flame. Store material at room temperature - normal conditions and should be kept out of direct sunlight. Warehouse storage should be in accordance with package directions, if any.
Incompatible Materials or Ignition Sources	 Keep away from heat, ignition sources oxidizers and strong acids.

Section	8. Exposure Controls/Personal Protection
Exposure limit values:	Not Applicable
Engineering Measures/Controls	 No special protective control measures are necessary for use of this product. Under normal conditions, this material is not expected to release, or otherwise result in exposure to a hazardous chemical. Use only with adequate ventilation. If user operations generate dust, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. In case of insufficient ventilation, wear suitable respiratory equipment.
Respiratory Protection	 In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced
Eye/Face Protection	 Material in its natural state, protective equipment is not known to be necessary. If user operations require additional process manufacturing, use of Safety glasses with side-shields may be worn to reduce the risk of eye injury. Example: If this product is cut with power cutting equipment (such as saws, drilling, grinding or sanding equipment) or related activities wear safety goggles or safety glasses with side shields.
Hands	 Material in its natural state, protective equipment is not known to be necessary. Under normal conditions of use this product is not expected to cause skin irritation. If additional process manufacturing is required, to reduce the risk of skin irritation due to dust generated by power cutting equipment activities - leather or other appropriate work gloves are recommended.
Skin/Body ●	 Material in its natural state, protective equipment is not known to be necessary. Under normal conditions of use this product is not expected to cause skin irritation. If additional process manufacturing is required, to reduce the risk of skin irritation due to dust generated by power cutting equipment activities - leather or other appropriate work gloves and either an apron or lab coat are recommended.
Personal Protective Equipment (Pictograms)	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Type of equipment should be approved by a specialist before additional process manufacturing of this product. Image: Image: Image

Section 9. Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description				
Physical Form	Solid	Appearance/Description	Dark Grey/Dark Brown Flexible Magnet Material	
Color	Dark Grey/Dark Brown	Odor	Not Applicable - No Vapors	
Taste	Not Available	Particulate Type	Not Relevant	
Particulate Size	Not Relevant	Aerosol Type	Not Relevant – Not an Aerosol	
Odor Threshold	Not Applicable - No Vapors	Physical & Chemical Properties	Not Available	
General Properties	General Properties			
Boiling Point (° C)	Not Applicable – Does Not Boil	Melting Point	Not Applicable – Does Not Melt	
Freezing Point (° C)	Not Available	Decomposition Temperature	Not Available	
Heat of Decomposition	Not Available	рН	Not Applicable	

Section 9. Physical and Chemical Properties (Continued)

Information on Physical and Chemical Properties (Continued)

General Properties (Continue	General Properties (Continued)		
Specific Gravity/Relative	3.2		
Density			
Solubility in Water	Insoluble	Coefficient of Water/Oil Distribution	Reactivity in Water - None
Viscosity	Not Relevant	Explosive Properties	None
Oxidizing Properties	Not Relevant		
Volatility			
Vapor Pressure (mmHg)	Not Applicable - No Vapors	Vapor Density (air = 1)	Not Applicable - No Vapors
Evaporation Rate	Not Applicable - No Vapors	VOC (Wt.)	Not Applicable - No Vapors
Volatiles (Vol)	Not Applicable - No Vapors		
Flammability			
Flash Point	Material will smolder when preheated to 850°F (454° C)	Burning Time	Not Available
Burning Rate	Not Available	Auto ignition	Not Available
Flame duration	Not Available	Flame Height	Not Available
Ignition distance	Not Available	Flammability (Solid, Gas)	Not Available

	Section 10. Stability and Reactivity
Reactivity	 None Known - No dangerous reaction known under conditions of normal use.
Chemical stability	 Stable under ordinary conditions of use, under normal temperatures, pressures and storage.
Possibility of hazardous reactions	 None Expected - Hazardous polymerization will not occur.
Conditions to avoid	 High temperatures, sparks, open flames, other sources of ignition. Prevent Dust accumulation.
Incompatible materials	None Known
Hazardous decomposition products	 None Known - Decomposition products from this material are those that would be expected from any organic (carbon-containing) material, and are mainly derived from pyrolysis or burning of the polymer.
	These decomposition products may include carbon dioxide, carbon monoxide, carbon particles, Nitrogen oxides, Hydrocarbons.
	Note: This product should not be burned as construction waste.

Section 11. Toxicological Information

Information on toxicological effects

Component Name	CAS	Data
Plastalloy [™] - Flexible Bonded Magnets Note: Material is a Solid	Not Listed	This product when used under reasonable conditions and in accordance with the Electrodyne directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the production's directions for use may affect the performance of the product.
Route(s) of entry/exposure		n, Eye, Ingestion – If this product is not used under nditions and in accordance with the Electrodyne directions for
Effects of Acute Exposure	None Known	
Effects of chronic exposure	None Known	
Irritancy of Product	None Known	
Skin sensitization	None Known	

Section 11. Toxicological Information (Continued)

Information on toxicological effects (Continued)		
Respiratory sensitization	 None known significant effects or critical hazards. 	
Carcinogenicity – IARC Monographs	 None known significant effects or critical hazards. 	
Carcinogenicity - ACGIH	No - Not Listed	
Reproductive toxicity	No - Not Listed	
Teratogenicity	No - Not Listed	
Embrotoxicity	No - Not Listed	
Mutagenicity	No - Not Listed	
Name of synergistic products/effects	 None known significant effects or critical hazards. 	
Other Toxic Effects on Humans	 None known significant effects or critical hazards. 	

Section 12. Ecological Information

Toxicity		
Solubility in Water	Insoluble	
Reactivity in Water	None	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in Soil	No data available	
Other adverse effects	 No studies have been found. 	
Other Information	 No data is available on the adverse effects of this material on the environment. Reactivity in Water – None 	

	Section 13. Disposal Considerations	
Waste treatment methods		
Product waste	 Dispose of content and/or container in accordance with Federal, State/Provincial, Local Governmental, Regional, National, and/or International Regulations requirements. Note: This product should not be burned as construction 	
Packaging waste	 Dispose of content and/or container in accordance with Federal, State/Provincial, Local Governmental, Regional, National, and/or International Regulations requirements. Note: This product should not be burned as construction waste. 	

Section 14. Transport Information

Special Shipping Information Shipping Name This product is not classified as a hazardous material for transport **Hazard Class Packaging Group** None None **Identification Number** None TGS DOT None None - Not Regulated - Not classified as a hazardous material for transport CAQ IMO None None

Section 15. Regulatory Information				
15.1 US Federal Regulation	ons			
GHS Classification				
GHS Ratings: Health: 0 Fire		Note: * Material will smolder when preheated to 850°F (454° C)		
GHS Ratings: Health: 0 Fire: 4 Physical Hazard: 0 V Hazard Scale: 5 = Minimal Hazard, 4 = Slight Hazard, 3 = Moderate Hazard, 2 = Serious Hazard, 1 = Severe Hazard				
OSHA		WHMIS & NFPA		
None - Not Regulated - Not classified as a hazardous material				
SERA		TSCA		
None - Not Regulated - Not classified as a hazardous material IATA – Not classified as a hazardous material.		erial Not Applicable - Not classified as a hazardous material		
Reference - Air Freight Shipments only - May be restricted as magnetized material. IATA (Class 9, Miscellaneous). Shipments of UN2807, Magnetized material field strength and identification (Labelled) which conform to IATA - Packing Instruction 953 can be shipped only to, from, and within certain countries. Refer to the IATA Dangerous Goods Regulations publication (you can get a copy of this documentation from your freight carrier or order it from IATA directly).				
15.2 US State Regulations				
Ingredient – Base Product - Synthetic Polymer, 2-Propenenitrile, polymer with 1,3-butadiene				
US - California – Proposition 65 Carcinogens List		WARNING: This product contains traces/residual monomers - Acrylonitrile, 1,3-Butadiene & 4-Vinylcyclohexene chemicals known to the state of California to cause cancer.		
US - California – Proposition 65 Reproductive Toxicity List – Female only		WARNING: This product contains traces/residual monomers - 1,3-Butadiene & 4-Vinylcyclohexene chemicals known to the state of California to cause (Female) reproductive harm.		
Section 16. Other Information				
Additional Information				
Product Family:	Plastalloy™	This SDS was prepared by The Electrodyne Company.		
History:				
Preparation Date:	28 May 2015			
Issued Date:	28 May 2015			
Last Revision Date:	21 August 2018			
Version Number:	1.20			
Notice to Reader				

Disclaimer: The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process. This Safety Data Sheet (SDS) has been reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-2010) and Classification complies with OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. Final determination of suitability of any material is the sole responsibility of the user. This would include the Hazardous Statement in Section 2 Hazard Identification regarding to Warning – Material that is magnetized "Only" - Individuals with pacemakers, other medical electronic devices or metallic implants, magnetized material may affect the operation of the device, do not handle, seek medical advice. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. We make no representation as to completeness or accuracy. In no event we shall be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

Section 16. Other Information – Notice to Reader Continued on Page 8

Section 16. Other Information – Notice to Reader Continued

Manufacturer assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, manufacturer assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

*** END OF SDS ***