Material Safety Data Sheet
May be used to comply with
OSHA'S Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

Identity *(As Used on Label and List)*	*Note: Blank Spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.*
Anaconda Type ZHUA-Blk 1-1/4" **AEI PIN 39840** **Weights per ft**	

Section I

Manufacturer's Name	Emergency Telephone Number
ANAMET Electrical, Inc.	CHEMTREC 800-424-9300
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information
P.O. Box 39	217-234-8844
1000 Broadway Avenue East	Date Prepared JUNE 6, 2012
Mattoon, Illinois 61938	Signature of Preparer (*optional)*

Section II --- Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS Number	OSHA PEL (mg/m³)	ACGIH TLV (mg/m³)	Other Info Weight grams/ft.	% Weight
Iron (Fe)	7439-89-6	10(Fe^2 O^3 Fume)	5 (Fe^2 O^3 Fume)	Balance	Balance
Alloying Elements:					
Aluminum (Al)	7429-90-5	None established	10 – Max	0.244582	0.12 – Max
Antimony (Sb)	7440-36-0	0.5 total	0.5 – Max	0.034940	0.02 – Max
Carbon (C)	7440-44-0	None Listed	None established	0.436754	0.21 – Max
Columbium	7440-03-1	None established	None established	0.174702	0.08 – Max
Lead (Pb)	7439-92-1	0.05 as fume & dust	0.15 – Max	0.034940	0.02 – Max
Manganese (Mn)	7439-96-5	5 as managnese	(C) 5 as dust; 1 as fume	3.406685	0.04 – 1.57
Nickel (Ni)	7440-02-0	1 mg TWA	1.5 mg TWA	0.524105	0.00 – 0.25
Phosphorous (P)	7723-14-0	None for inorganic phosphates	None for inorganic phosphates	0.262053	0.00 – 0.12
Rare Earth (Ce)		None established	None established	0.174702	0.00 – 0.08
Sulfur (S)	7704-34-9	13 as SO_2	5 sulfur dioxide	0.087351	0.00 – 0.04
Titanium (Ti)	7440-32-6	15 as TiO_2	10 total, 5 Respirable dust	0.524105	0.00 – 0.25
Vanadium (V)	7440-62-2	(C)0.5 as dust; and 0.1 as fume	0.05 as Resp dust and fume	0.349404	0.00 – 0.17
Zinc (Zn)	1314-13-2	5.0 total	5.0 as fume	31.970424	7.02 – 8.09
110 copper	7440-50-8	0.2 as copper	0.2 as copper	0.999961	0.00 – 0.47
Aluminum	7429-90-5	0.5 total	0.5 total	8.999651	0.00 – 4.25
TPU Elastomer	9018-04-6	None Established	None Established	53.667226	12.64 – 12.72
Carbon Black	1333-86-4	3.5 Mg	3.5 mg	0.161486	0.000 – 0.076

Notes: (C) denotes "ceiling limit" which is not to be exceeded at any time

Section III ---- Physical/Chemical Characteristics

Boiling Point		Specific Gravity (H_2O = 1)	
N/A	N/A °F		6.797
Vapor Pressure (mm Hg.)		Melting Point	
	N/A	170-230	˚C
Vapor Density (AIR = 1)		Evaporation Rate	
	N/A	(Butyl Acetate = 1)	N/A

Solubility in water

Non Soluble

Appearance and Odor

Cover of various colors with metal core– Odorless

* U.S.G.P.O.; 1986-491-529/45775

Section IV ---- Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
N/A °F	Lower N/A % Upper N/A %	NONE	NONE

Extinguishing Media

Water is most effective. ABC Dry Chemical, foam or Co2.

Special Fire Fighting Procedures

Wear positive pressure, self-contained breathing apparatus (SCBA)

Unusual Fire and Explosion Hazards

None under normal use and applications

Section V ---- Reactivity Data

Stability			Conditions to Avoid:
	Unstable		Avoid prolonged or excessive heating – one hour at 360˚F ten minutes at 400˚F
	Stable	X	and 5 minutes at 450˚F

Incompatibility *(Materials to Avoid)*

Oxidizing agents

Hazardous Decomposition or Byproducts

Hydrogen chloride, carbon monoxide and carbon dioxide

Hazardous Polymerization			Conditions to avoid:
	May Occur		None during normal use
	Will Not Occur	X	

Section VI ---- Health Hazard Data

Route(s) of Entry:	Inhalation?		Skin?		Ingestion?	
	YES	(as fumes)	NO		YES	

Health Hazards *(Acute and Chronic)*

Proposition 65 This product contains substances known to the state of California to cause cancer and / or reproductive toxicity.

Contains hazardous chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community right to know Act of 1986.

Materials contained in products in the natural state do not present an inhalation, ingestion, or contact health hazard. However, operations such as welding, burning, sawing, brazing, and grinding, which results in elevating the temperature to or above its melting point or results in the generation of airborne particulates may present hazards. The above operations should be performed in well ventilated areas. The major exposure hazard is inhalation.

ACUTE: Excessive inhalation of metallic fumes and dusts may result in irritation of eyes, nose, and throat. Also high concentrations of fumes and dusts of iron-oxide, manganese, copper, zinc, & lead may result in metal fume fever. Typical symptoms consist of a metallic taste in the mouth, dryness and irritation of the throat, chills and fever, and usually last from 12 to 48 hours.

CRONIC: Chronic and prolonged inhalation of high concentrations of fumes or dust of the following elements may lead to the conditions listed opposite the element:

Iron (iron-oxide) – Pulmonary effects, siderosis.
Manganese – Bronchitis, Pneumonitis, lack of coordination.
Vanadium – No reported cases of exposure to vanadium.
Molybdenum – Pain in joints, hands, knees and feet.
Lead – Prolonged exposures can cause behavioral changes, kidney damage, periphery neuropathy characterized by decreased hand-grip strength and adverse reproductive effects.
Zinc – None reported.

Carcinogenicity:	NTP?		IARC Monographs?		OSHA Regulated?	
SEE **SECTION VI** ABOVE	N/A		N/A		NO	

Signs and Symptoms of Exposure

Do NOT use abrasive wheel for cutting. Fumes produced during abrasive cutting may cause irritation to the eyes, respiratory tract or skin of employees who may be sensitive to these fumes.

Medical Conditions

Generally Aggravated by Exposure, None during normal use.

Emergency and First Aid Procedures

Inhalation: Remove to fresh air; if condition continues consult, physician.
Eye Contact: Immediately flush well with running water to remove particulate: get medical attention.
Skin Contact: If irritation develops, remove clothing and wash well with soap and water. If condition persists, Seek medical attention.
Ingestion: If significant amounts of metal or cover dust are ingested, seek medical attention.

* U.S.G.P.O.; 1986-491-529/45775

Section VII ---- Precautions for Safe Handling and Use

Steps to be taken in case Material is Released or Spilled Special Precautions: Use good housekeeping practices to prevent accumulation of dust and to keep airborne dust to a minimum.

Waste Disposal Method Do not incinerate. Dust, etc. – follow federal, state, and local regulations regarding disposal.

Precautions to Be Taken in Handling and Storing; Not to be stored near open flame. Not to be stored in areas where the temperature exceeds 176˚F.

Other Precautions; None during normal use

Section VIII ---- Control Measures

Respiratory Protection *(Specify Type)*

Approved dust/mist/fume respirator should be used during welding or burning if OSHA PEL or TLV is exceeded.

Ventilation	Local Exhaust	SPECIAL
	As needed to remove fumes	None
	Mechanical *(General)*	Other
	As needed to remove fumes and/or dust	None
Protective Gloves; When welding or burning.		Eye Protection; Safety glasses should always be worn when grinding or cutting;

Other Protective Clothing or Equipment; As required

Work/Hygienic Practices; Normal safety and hygiene practices.

Section IX ---- Additional Information

This product has been determined to be RoHS and REACH compliant from current information available.

Disclaimer:

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied regarding the accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Disposal; this product may be recycled as separate components.

* U.S.G.P.O.; 1986-491-529/45775