APPLIED ENERGY TECHNOLOGY CORP

2105 S HARDY DRIVE • SECTO #20 - EMPE ARIZON 3 85280 PHONE (480) 894-170 • FAD 480 894-8375

Material Safety Data Sheet

Section 1. Chemical	Product and Company Identifi	cation
Product Name:	Cartridge, Power Device	IN CASE OF AN EMERGENCY/ INCIDENT: INFOTRAC (24 HOUR): (800) 535-5053
Manufacturer:	Applied Energy Technology Corp. 2105 S. Hardy Drive Suite #20 Tempe, AZ 85282	EMERGENCY PHONE: (480) 894-1719 INFORMATION: (480) 894-1719 (M-TH, 7:00 a.m 4:30 p.m. PS)
Commercial Name(s):	Fire Extinguisher Cartridge	REFER TO GUIDE 114 OF THE NORTH
Supplier:	Applied Energy Technology Corp. 2105 S. Hardy Drive Suite #20	AMERICAN EMERGENCY RESPONSE GUIDEBOOK.
	Tempe, AZ 85282	ALL NON-EMERGENCY QUESTIONS SHOULD BE DIRECTED TO CUSTOMER SERVICE (480-894-1719) FOR ASSISTANCE.

Section 2. Composition and Inform	ation on Ingredients			
Hazardous Components	CAS#	ACGIH TLV		
Cyclonite (RDX)	121-82-4	0.5MG/M ³		
Zirconium Metal Powder	7440-67-7	5MG/M ³		
Potassium Perchlorate	7778-74-7	5MG/M ³		
Ferric Oxide	1309-37-1	10MG/M ³		
Diatomaceous Earth	68855-54-9	10MG/M ³		
Boron	7440-42-8	5MG/M³		
Potassium Nitrate	7757-79-1	10MG/M ³		
Data on Ingredients: Zirconium Mer (Zr/KCLO ₄).	tal Powder and Potassium Perch	lorate is a Pyrotechnic Compound		

Section 3. Hazards Id	lentification
Health Hazard:	Before detonation - none. The primary hazards from improper handling and misuse of these components are physical wounds resulting from detonation. Detonation may cause trauma to eyes, skin, and ear due to loud noise and high energy shrapnel.
Appearance and Odor:	Metal cases approximately 3/4" Hex x 11/4" long; No odor.
Routes of Entry:	Inhalation and Skin
Signs and Symptoms of Exposure:	Close proximity during detonation may cause damage to eyes, ear, and skin. Post detonation fumes are noxious.

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Section 4. First Aid Measures	A CONTRACTOR OF THE CONTRACTOR
Emergency and First Aid	Move victim to fresh air. Call emergency medical care. Apply
Procedures:	artificial respiration if victim is not breathing. Administer oxygen if
	breathing is difficult. Ensure that medical personnel are aware of the
	material(s) involved, and take precautions to protect themselves.

Section 5. Fire Fighting Measu	res				
Flash Point (Method Used):	Auto Ignition Temperature 400°F				
Flammable Limits:	Keep fire away.				
Extinguishing Media:	Water fog or spray to cool; Foam to extinguish.				
Special Fire Fighting Procedures:	Maintain 50 to 100 foot distance. Cool and douse with water. Foam from distance.				
Unusual Fire and Explosion Hazards:	Mass detonating from excessive heat (400°F+) will produce shrapnel to approximately 50 ft.				

Section 6. Accidental Release Mo	easures					Total Total
Steps to be Taken in Case Material is Released :	If components individually, hand protection and s released from parameterial is visible friction, static, or either case.	lle sparingly to tatic suppress cking and indi- or separating,	repack. or. If in its invidually in the second contract of the seco	Wear app individual are damageme cautio	components ged and ex on not to ex	and ear nts are plosive pose to

Section 7. Handling and Storage	
Precautions to be taken in Handling and Storing:	Wear eye and ear protection and static grounding. DO NOT remove black rubber shunt plug or other shunting devices until after installation.
Other Precautions:	Keep away from static producing materials, open flame. DO NOT subject to any electronic test equipment.

Section 8. Exposure Controls and Personal Protection					
Personal Protection:	ALWAYS wear eye protection, personal static grounding, and ear protection when handling. Use ONLY Cotton Protective Gloves.				
Personal Protection if Detonated:	Respiratory Protection mask.				

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Section 9. Physical and Chemical Properties					
Physical state and appearance:	Metal cases approximately 3/4" Hex x 11/4" long.				
Boiling Point:	N/A				
Vapor Pressure:	N/A				
Vapor Density:	N/A				
Solubility in Water:	N/A				
Specific Gravity:	N/A				
Melting Point:	N/A				
Evaporation Rate:	N/A				
P/H:	N/A				
Odor:	No odor.				

Section 10. Stability and Reactivity				
Stable				
Excessive heat (350°F plus), Mechanical shock or impact, Electro-static Discharge				
N/A				
If detonated, fumes are noxious.				
Will not occur.				

Section 11. Toxi	cological Information	
See Section 3.		
		

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Section 12. Ecological Information

Direct Environment Effects Should Material be Released into Environment:

N/A

Section 13. Disposal Considerations

Waste Disposal Method:

Consult with Manufacturer.

Section 14. Transport Information

D.O.T/U.N. Hazardous Materials

Description/Proper Shipping

Name:

Cartridges, Power Device

D.O.T/U.N. Hazardous Class.

Division, Compatibility Group:

1.4S

U.N. Identification Number:

UN0323

Packaging Group:

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Bureau of Explosives: This product is considered to be Hazardous as defined by 29 CFR

1910,1200.

Department of Transportation: This product is considered to be Hazardous as defined by 49 CFR

OSHA: This product is considered to be Hazardous as defined by 29 CFR

1910.1200.

Section 16. Other Information

Contract/Solicitation Number:

Manufacturer's Cage Code: 57597

Contractor's Name: Applied Energy Technology Corp.

Contractor's Cage Code: 57597

NSN:

Specification Number/Revision

Level:

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Section 16. Other Informa	ation (Cont.)
Other:	This MSDS has been prepared in accordance with 29 CFR 1910.1200, ANSI Z400.1, and Federal Standard No. 313.
MSDS Status:	Revised Document in its entirety.
Abbreviation Legend:	N/A = Not Applicable

Notice to Reader

The Cartridges may pose unknown hazards and should be handled with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is installed or deteriorates, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Applied Energy Technology Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.