



HAZARDOUS CHEMICAL MATERIAL SAFETY DATA SHEET
(Conforms to the requirements of 29 CFR 1910.1200)

I. PRODUCT IDENTITY: Cartridge Power Device, UN0323
1.4S, P.G. II
EX-2008030383
(Cartridge; CAD, Inc P/N: 074125-1,
Spectrex, Inc. P/N: 622314)

Net Reactive Material Content: 0.710 gram maximum per Cartridge.

CARTRIDGE ACTUATED DEVICES, INC. **24 HOUR EMERGENCY PHONE #**
51 Dwight Place IN U.S.A.: **800-424-9300**
Fairfield, N.J. 07004 OUTSIDE U.S.A.:
Telephone Number: 973-575-1312 202-483-7616 CALL COLLECT
Prepared by CAD Engineering FIRE, SPILL, EMERGENCY ONLY

Material(s) described is/are: Company proprietary Electro-Pyrotechnic device and by-products of initiation.

II. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS:

Chemical and common name of Hazardous chemical ingredients:

<u>** COMMON NAME</u>	<u>CAS NO.</u>
Aluminum	007429-90-5
Lead Thiocyanate	000592-87-0
Potassium Chlorate	003811-04-9
Potassium Perchlorate	007778-74-7

III. PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling point:	N/A	Solubility in water:	Slightly
Specific gravity:	N/A	pH:	N/D
Vapor Pressure:	N/A	Evaporation Rate:	N/A
% Volatile:	Negligible.		



IV. FIRE, EXPLOSION AND REACTIVITY HAZARD DATA

DANGER Extremely Flammable --EXPLOSIVE--
Keep away from heat and keep shunted.

Flash Point:	N/D
Flammable Limits:	None, Explosive Device
Auto-Ignition Temperature:	225° F
Extinguishing Media:	Dry, Chemical Extinguisher, water *(see next note).
Special Fire-Fighting Procedures:	None, (do not fight fires involving explosives).
Grounding Procedure:	Keep shunted when handling or during storage.
Stability Considerations:	Stable
Incompatibility:	Shock, Flame and static Sources.
Hazardous decomposition products:	None
Hazardous products of combustion:	Flame, high heat in small quantities, Carbon Monoxide, Carbon Dioxide, Oxides of Nitrogen Hydrogen Chlorides, traces of cyanide compounds, Lead Oxides and salts.
Hazardous Polymerization:	None

V. HEALTH HAZARD DATA

Emergency and First Aid Procedure:

Treat burns and any laceration by cleaning and applying sterile bandages. Transport individual for further medical treatment.

Primary Route of Entry:	Inhalation of combustion gas following initiation (applies only if Cartridge ruptures)
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Cancer Information:	None
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Reported effects on Humans:	Respiratory irritant (If the Cartridge ruptures)
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Other:	N/A (Cartridge is intact)
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VI. SPILL AND LEAK PROCEDURES

Steps to be taken if material is spilled: (applies only if Cartridge is ruptured)

Clean the spill by liberally wetting down with solvent (Acetone, Butyl Acetate or Alcohol) then by wiping material up with paper towels or with cotton rag. Keep a fire extinguisher present. Wear safety glasses, protective gloves, and non-static generating clothing during clean up or transfer operation.

Waste Disposal Method:

Remotely initiate individual Cutter in a restraining fixture or burn in the open in an isolated location. Disposal must be in accordance with local, state, and Federal regulations.

VII. APPLICABLE CONTROL MEASURES

Appropriate Hygienic Practices:

N/A

Personal Protective Equipment:

Safety glasses & grounding devices (ground straps and/or conductive footwear).

Work Practices:

Avoid high temperatures; Wear personal protective equipment. Work behind shielding and keep Cartridge shunted.

Handling and Storage precaution:

Recommended storage, 70°F

Engineering Controls:

Work with device in a shielded area, keep shunted until installed.

Protective Measures during Repair and Maintenance:

Eliminate static discharge sources. Avoid flame or high heat. Shield the device when working with the device.

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