



CARTRIDGE ACTUATED DEVICES, INC.
51 Dwight Place, Fairfield, New Jersey 07004

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page 1 of 3

HAZARDOUS CHEMICAL MATERIAL SAFETY DATA SHEET

(Conforms to the requirements of 29 CFR 1910.1200)

I. PRODUCT IDENTITY: Cartridges, power device, UN0323
1.4S, Pkg. Gr. II
US DOT EX-9609043
(Cartridge Assembly, CAD P/N: 074055,
Fike P/N: 02-4134)
Net Explosive Weight 1.500 grams per unit

CARTRIDGE ACTUATED DEVICES, INC.
51 Dwight Place
Fairfield, N.J. 07004
Telephone Number: 973-575-1312
Prepared by CAD Engineering

24 HOUR EMERGENCY PHONE #
IN U.S.A.: **800-424-9300**
OUTSIDE U.S.A.:
202-483-7616 CALL COLLECT
FIRE, SPILL, EMERGENCY ONLY

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

II. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS: N/A

Chemical and common name of Hazardous chemical ingredients:

<u>** COMMON NAME</u>	<u>CAS NO.</u>
Nitroglycerin	000055-63-0
Nitrocellulose	009004-70-0
Potassium Chlorate	003811-04-9
Lead Thiocyanate	000592-87-0

III. PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling point:	N/A	Solubility in water:	N/A
Specific gravity:	N/A	pH:	N/D
Vapor Pressure:	N/D	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
Special Fire-Fighting Procedures:	None.
Grounding Procedure:	Insure that the device is shunted and handlers are grounded.
Stability Considerations:	None
Incompatibility:	Shock, Flame, Friction, Temperature high heat and static sources.
Hazardous decomposition products:	None
Hazardous products of combustion:	Flame, high heat, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen chloride, trace cyanide compounds, oxides and salts of lead. Under certain conditions, device can propel high velocity particles on initiation.
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:	N/A (cartridge is intact) Inhalation of actuation fumes.
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Cancer Information:	Not listed as carcinogen by N.T.P. if cartridge is intact
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Reported effects on Humans:	Respiratory irritant.
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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 spill after liberally wetting down with solvent (Acetone, Butyl Acetate or Alcohol) 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:

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). When firefighting, wear NIOSH approved gas respirator.

Work Practices:

Avoid high temperatures; keep the cartridge shunted and wear personal protective equipment. Work behind shielding.

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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Net Reactive Material Content: 1.5 grams maximum per unit.