



CARTRIDGE ACTUATED DEVICES, INC.

123 Clinton Road, Fairfield, New Jersey 07004

074055

052198

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HAZARDOUS CHEMICAL MATERIAL SAFETY DATA SHEET

(Conforms to the requirements of 29 CFR 1910.1200)

I. PRODUCT IDENTITY: Cartridges, power device UN0323  
1.4s, P.G. II  
EX-9609043  
(Cartridge Assembly P/N 074055)

CARTRIDGE ACTUATED DEVICES, INC.	24 HOUR EMERGENCY PHONE#
123 Clinton Rd.	IN U.S.A.: 800-424-9300
Fairfield, N.J. 07004	OUTSIDE U.S.A.:
973-575-1312	202-483-7616 CALL COLLECT
Prepared by CAD Engineering	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>Material</u>	<u>CAS. No.</u>
Nitroglycerin	000055-83-0
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	
Vapor Pressure: N/D	pH: N/D
% Volatile: Nil.	Evaporation rate: N/A

IV. FIRE, EXPLOSION AND REACTIVITY HAZARD DATA

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

Flash point	Flammable limits
Auto-ignition Temperature	325°F
Extinguisher Media	Dry, Chemical extinguisher

Special Fire-Fighting procedures: None

Grounding Procedure: Insure that the device is  
shunted and handlers are  
grounded



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Stability Considerations:	None
Incompatibility:	shock, flame, friction, temperature high heat and static sources.
Hazardous decomposition products	None
Hazardous products of combustion	High temperature flame, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen chloride, and trace amounts of lead.
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 gas after initiation.
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Cancer Information	None
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Reported effects on Humans	Respiratory irritant
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Other	None
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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 a cotton rag. Keep a fire extinguisher present.

Waste Disposal Method:

Disposal must be in accordance with local, state, and Federal regulations. Call Cartridge Actuated Devices for assistance, if needed.



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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 & wear protective equipment.

Handling and Storage precaution: Recommended storage, 70° F., keep shunted.

Engineering Controls: Work with unit in a shielded area, keep shunted until installed.

Protective Measures during Repair and Maintenance:

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

**DISCLAIMER:** The above information was taken from various published and unpublished sources and is believed to be accurate and to represent the best information currently available to us. However, we make no warranty, expressed or implied, of the accuracy of such information, and assume no liability resulting from its use. Users should make their own investigation to determine suitability of the information for their particular purposes.

**THIS UNIT IS NOT USER SERVICEABLE. DO NOT ATTEMPT DOWNLOADING OR DISASSEMBLING.**

Net Reactive Material Content - 1.5 grams each