

#09990



CARTRIDGE ACTUATED DEVICES, INC.
51 DWIGHT PLACE FAIRFIELD, NJ 07004

REVISION: A DATE: 02/26/04

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

I. PRODUCT IDENTITY: Cartridges, Power device, 1.4s UN 0323
EX-9311346
(Squib 073091-1)

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

Material(s) described is/are: Company Proprietary Explosive
Device and by-products of
initiation.

II. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS: N/A

Chemical and common name of Hazardous chemical ingredients:

** COMMON NAME	CAS NO.
Nitroglycerin	55-63-0
Nitrocellulose	90004-70-0
Lead Styphnate	15245-44-0

III. PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling point N/A	Solubility in water slightly
Specific gravity N/A	pH N/A
Vapor Pressure N/A	Evaporation Rate N/A
% Volatile NIL	

IV. FIRE, EXPLOSION AND REACTIVITY HAZARD DATA

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

Flash point:	N/A
Flammable Limits:	None, Explosive Device
Auto-ignition temperature:	325° F
Extinguishing media:	Dry, Chemical Extinguisher, water *(see next note)
Special Fire-Fighting procedures:	Don't fight fires directly involving explosives
Grounding Procedure:	Keep shunted when handling or during storage



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Stability Considerations:

Stable

Incompatibility:

None if cartridge remains intact

** All information applicable only if the cartridge ruptures before initiation.

Hazardous decomposition products: None

Hazardous products of combustion: Flame, high heat in small quantities, carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, hydrochloric acid 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: N/A (cartridge is intact)

Cancer Information: None

Reported effects on Humans: N/A

Other: N/A (cartridge is intact)

VI. SPILL AND LEAK PROCEDURES

Steps to be taken if material is spilled:

Clean spill after liberally wetting down with solvent (Acetone, Butyl Acetate, Alcohol or water) by wiping material up with paper towels or with cotton rag. Keep a fire extinguisher present.

Waste Disposal Method:

Remotely initiate individual actuators in a restraining fixture or burn in the open in an isolated location. Remotely ignite with slow burning train or electrically initiated squib.

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).

Work Practices: Avoid high temperatures. Wear personal protective equipment. Work behind shielding and keep the actuator shunted.

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

Engineering Controls: Work with device in a shielded area.

Protective Measures during Repair and Maintenance: Eliminate static discharge sources. Avoid flame or high heat. Shield device when working with it.

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Net Reactive Material Content not to exceed 0.115 grams