

# Material Safety Data Sheet

May be used to comply with  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements.

# U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

<b>Identity (As Used on Label and List)</b> SUM9V/EXTRA	<i>Note: Blank space are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</i>
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## Section I

<b>Manufacturer's Name</b> CHUNG PAK BATTERY WORKS LTD.	<b>Emergency Telephone Number</b> Not applicable
<b>Address (Number, Street, City, State, and ZIP Code)</b> 7/F., CHUNG PAK COMMERCIAL BLDG.,2 CHO	<b>Telephone Number for information</b> (00852)27171338
YUEN ST., YAU TONG BAY, KOWLOON, HONG	<b>Date Prepared</b> AUGUST 15, 2008
KONG	<b>Signature of Preparer (optional)</b>

## Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	Other Limits Recommended	%(optional)
Mercury (Hg) (wt%) CAS No.7439-97-6			≤ 0.0001 %
Cadmium (Cd) (wt%) CAS No.7440-43-9			0.001 %
Lead (Pb) (wt%) CAS No.7439-92-1			0.05 %

## Section III - Physical/chemical Characteristic

<b>Boiling point</b>	N/A	<b>Specific Gravity (H<sub>2</sub>O=1)</b>	N/A
<b>Vapor Pressure (mm Hg)</b>	N/A	<b>Melting Point</b>	N/A
<b>Vapor Density (Air=1)</b>	N/A	<b>Evaporation Rate (Butyl Acetate=1)</b>	N/A
<b>Solubility in water</b>	N/A		
<b>Appearance and odor</b>	Rectangular-Cylindrical Shape Odorless		

## Section IV- Fire and Explosion Hazard Data

<b>Flash Point (Method used)</b> Incombustible	<b>Flamable Limits</b> N/A	<b>LEL</b> N/A	<b>UEL</b> N/A
<b>Extinguishing Media</b> N/A			
<b>Special Fire Fighting Procedures</b> N/A			

## Unusual Fire and Explosion Hazards

When exposed to excess heat, batteries may burst or leak.

## Section V - Reactivity Data

Stability	Unstable		Condition to avoid Do not short circuit, charge or dispose of in fire.
	Stable	X	

Incompatibility (Material to Avoid)

## Hazardous Decomposition or Byproducts

N/A

Hazardous Polymerization	May occur		Condition to avoid
	Will not occur	X	

## Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin ?	Ingestion?
	N/A	N/A	N/A

Health Hazards (Acute and Chronic)

N/A

Carcinogenicity:	NTP ?	IARC Monographs ?	OSHA Regulation ?
	N/A	N/A	N/A

## Signs and Symptoms of Exposure

In case of electrolyte leakage skin will be itchy when contaminated with electrolyte.

## Medical Conditions

## Generally Aggravated by Exposure

N/A

amounts of water for fifteen(15) minutes. If Irritaion persists, get medical help immediately.

## Section VII - Precautions for Handling and Use

### Steps to Be Taken in Case Material Is Released or spilled

Wipe out wet duster with rubber glove. Avoid direct contact with electrolyte.

## Waste Disposal Method

General abandonment

## Precautions to Be Taken in Handling and Storing

Avoid mechanical or electrical abuse. Batteries shall be stored in orderly fashion. Do not mix metal objets with the stored batteries

## Other Precautions

Do not short circuit, charge or dispose of in fire. Battery may explode or leak. Never try to disassemble a battery.

## Section VIII - Control Measures

### Respiratory Protection (Specify Type)

N/A

Ventilation	Local Exhaust	Special
	N/A	N/A
	Mechanical (General)	Other
	N/A	N/A

Protective Gloves	N/A	Eye Protection	Safety Glasses
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Other Protective Clothing or Equipment	N/A
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Work/Hygienic Practices	N/A
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## **Section IX –Transportation**

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Chung Pak Battery Works Ltd. produced Zinc Chloride Dry Battery are considered to be “dry cell” batteries and are unregulated for purpose of transportation by U.S. Department of Transportation (DOT),International Civil Aviation Administration (ICAA), International Air Transport Association (IATA) and the International Maritime Dangerous Goods regulations (IMDG). The only DOT requirement for shipping these batteries is Special Provision 130 which states: “Batteries, dry , are not subject to the requirements of these subchapter only when they are offered for transportation in a manner that prevents the dangerous evolution of heat (for example, by the effective insulation of exposed terminals).”

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The requirements for shipping these batteries, in all modes of transportation, are that they must be separated from each other to prevent short-circuits and to prevent movement that could lead to short-circuits. Products must also be packed in strong packaging that can withstand the rigors normal to transportation. These products are labeled in accordance to requirements for cargo shipments of Alkaline Button Cell Batteries and Batteries.

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