Retringer/rcp REC'D FEB 08 2006

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

IDENTITY (As used on Label and List)
Alkaline Batteries – All sizes

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Supplier's Name
Hitachi Maxell Ltd.

Address (Number, Street, City, State, and ZIP Code)
1-1-88, Ushitora, Ibaraki-shi,
Osaka 567-8567, Japan

Emergency Telephone Number
072-623-8110

Telephone Number for Information
072-623-8118

Date Prepared
Feb.21.2003

Signature of Prepared (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Manganese Dioxide (MnO_2)			less than 42 wt %	
Potassium Hydroxide (KOH)			less than 7 wt %	
Mercury (Hg)			less than 2 ppm	
Cadmium (Cd)			less than 5 ppm	
Lead(Pb)			less than 5 ppm	

This product, Assembly in the production process is not used any of Mercury or Cadmium or Lead.

Section III — Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H_2O = 1)	N/A
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water
N/A

Appearance and Odor
N/A

Section IV — Fire and Explosion Hazard Data

Flash Point (method Used) N/A	Flammable Limits	LEL	UEL

Extinguishing Media
N/A

Special Fire Fighting Procedures

Unusual Fire and Explosion Hazards
Do not recharge, disassemble, heat above 60°C, incinerate.

Hitachi Maxell, Ltd.
03.2.21
Primary Battery

Section V — Reactivity Data

Stability			
	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid)

N/A

Hazardous Decomposition or Byproducts

N/A

Hazardous Polymerization			
	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI — Health Hazard Data

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

Health Hazards (Acute and Chronic)

N/A

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

Signs and Symptoms of Exposure

Skin irritation by electrolyte.

Medical Conditions

Generally Aggravated by Exposure Skin burn.

Emergency and First Aid Procedures

Wash out Electrolyte with water.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Wash out released or spilled electrolyte with water or neutralize electrolyte with boric acid.

Waste Disposal Method

Disposal must be in accordance with applicable federal, state and local laws and regulations

Precautions to Be Taken in Handling and Storing

Store in cool place but prevent condensation on cells or batteries. Elevated temperature can result in a shortened battery life.

Other Precautions

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	Eye Protection
N/A	N/A

Other Protective Clothing or Equipment

N/A