

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 Battery

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

Manufacturer's Name

Hitachi Maxell, Ltd.

Emergency Telephone Number

011-81-726-23-8110

Distributor's Name

Maxell Corporation of America

Telephone Number for Information

(201) 794-5900

22-08 Route 208

Date Prepared

September 16, 1992

Fair Lawn, NJ 07410

Signature of Preparer (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 38	wt%
Potassium Hydroxide (KOH)			less than 6.5	wt%

Section III — Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 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)	Flammable Limits	LEL	UEL
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N/A

Extinguishing Media

N/A

Special Fire Fighting Procedures

Unusual Fire and Explosion Hazards

Do not recharge, disassemble, heat above 50°C, incinerate.

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? N/A Skin? N/A Ingestion? N/A

Health Hazards (Acute and Chronic) N/A

Carcinogenicity: N/A NTP? N/A IARC Monographs? N/A OSHA Regulated? 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 Bury in landfill in accordance with appropriate federal, state and local 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	N/A	Special	N/A
	Mechanical (General)	N/A	Other	N/A

Protective Gloves N/A Eye Protection N/A

Other Protective Clothing or Equipment N/A

Work/Hygienic Practices Nothing in particular.