

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.1212-0072



IDENTITY (As Used on Label and List) Lithium Ion Rtechargeable Batteries	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.
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Section I

Manufacturer's name Hitachi Maxell,Ltd.	Emergency Telephone Number (+81)75-956-4161
Address (Number, Street, City, State, and ZIP Code) Oyamazaki, Otokuni	Telephone Number for Information (+81)75-956-4148
Kyoto, 618-8525	Date Prepared Jan.9,2003
Japan	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)
Lithium Cobalt Dioxide(LiCoO ₂)		less than	35wt%	
Lithium Haxafluoro Phosphate(LiPF ₆)		less than	3wt%	
Ethylene Carbonate		less than	6wt%	
Chain Carbonate		less than	8wt%	
Mercury(Hg)		less than	0.0002wt%	

Section III—Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity(H ₂ O=1)	N/A
Vaper Pressure(mmHg)	N/A	Melting Point	N/A
Vaper 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 N/A	LEL	UEL
Extinguishing Media Dry chemical powder, Carbon dioxide or water fog spray.			
Special Fire Fighting Procedures			

Unusual Fire and Explosion Hazards

Do not short circuit, disassemble, heat above 60°C,incinerate. Do not solder the battery directly.

Do not use any chargers not specified by Maxell.

(Reproduce locally)

N/A=Not applicable

Section 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 Health Hazard Data

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

Medical conditions
Generally Aggravated by Exposure N/A

Emergency and First Aid Procedures
N/A

Section Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled
Skin irritation by electrolyte if cell is opened. Wash out released or spilled electrolyte with water.

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.

Other Precautions

Section control Measures

Respiratory Protection (*Specity Type*)
N/A

Ventilation	Local Exhaust	N/A	Special	N/A
	Mechanical	(<i>General</i>) 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.