# **Safety Data Sheet**

Issuing Date: Nov. 1st, 2014

# Revision Date: July 26, 2017

#### PRODUCT AND COMPANY IDENTIFICATION 1.

## Product Name

#### **Recommended Use**

Supplier Address

Leoch Battery Corp

19751 Descartes Unit A Foothill Ranch, CA 92610 Phone:800-424-9300

Fax:949-588-5966 Contact: Paul Yu

Email: paulvu@leoch.us Contact Phone:949-588-5853 Valve Regulated Maintenance Free Lead-Acid Batteries: DJW, DJM, DJ, FT, LP, LPC, LPL, LPF, LPX, LPS, XP, XPE, XVP, PLH, PLC, PLX Series

Lead acid battery. Lead Acid (Non-spillable) Battery

NOTE: Leoch Battery is considered an article as defined by 29 CFR 1910.1200 (OSHA Hazard Communication Standard).

The information supplied in this SDS is at the customer's request for information only.

Emergency Contact Number: 1-800-424-9300 CHEMTREC US & MEX 1-703-527-3887 CHEMTREC International

#### **HAZARDS IDENTIFICATION** 2.

#### **Emergency Overview**

NOTE: Under normal conditions of battery use, internal components will not present a health hazard. The following information is provided for battery acid and lead exposure that may occur during battery production or container breakage or under extreme heat conditions such as fire. In case of rupture, Corrosive The product causes burns of eyes, skin and mucous membranes

Appearance: No information available.

Physical State: Solid.

Odor: Odorless

Potential Health Effects			
Principle Routes of Exposure	Skin contact.		
Acute Toxicity	Oral, dermal, inhalation: Category 4		
Eyes	Corrosive to the eyes and may cause severe damage including blindness. Category 1		
Skin	Causes burns, corrosion, irritation. Category 1A Harmful by inhalation. Contact with moist mucous membranes of the respiratory		
Inhalation	system can cause caustic condition resulting in burns. Category 4 Harmful if swallowed. Can burn mouth, throat, and the rest of digestive tract.		
Ingestion	Category 4		
Reproductive	Category 1A		
Carcinogenicity	Category 1B		
Chronic Effects	Lead compounds may be absorbed by ingestion, by inhalation and through the skin. Lead may damage kidney function, the blood forming system and the reproductive system. Avoid reproductive		
Main Symptoms	Severe exposures can lead to shock, circulatory collapse, and death Lead poisoning is characterized by a metallic taste in the mouth, loss of appetite		

indigestion, nausea, vomiting, constipation, sleep disturbances and overall weakness

None known.

## Aggravated Medical Conditions Environment Hazard

Toxic to aquatic life with long lasting effects. Aquatic Chronic 1, Aquatic Acute 1

Label Elements:

Health	Environmental	Physical
	¥2	
Hazard Statements	Precautionary Statements	
DANGER!	Wash thoroughly after handling.	
Causes severe skin damage	Do not eat, drink or smoke when using this product.	
Causes serious eye damage.	Wear protective gloves/protective clothing, eye protection/face protection.	
May damage fertility or the unborn child if	Avoid breathing dust/fume/gas/mist/vapors/spray.	
ingested or inhaled.	Use only outdoors or in a well-ventilated area.	
May cause cancer if ingested or inhaled.	Causes skin irritation, serious eye damage.	
Causes damage to central nervous system, blood	Contact with internal components may cause irritation or severe burns. Avoid	
and kidneys through prolonged or repeated	contact with internal acid.	
exposure.	Irritating to eyes, respiratory system, ar	nd skin.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Lead/Lead Compounds	7439-92-1	65~75
Sulfuric acid	7664-93-9	10~20
ABS resin	9003-56-9	$\sim$ 5
Tin	7440-31-5	<0.5
Calcium	7440-70-2	<0.1

## **4. FIRST AID MEASURES**

General Advice	First aid is upon rupture of sealed battery.
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
Skin Contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation	Move to fresh air. Call a physician or Poison Control Center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion	Immediate medical attention is required. Call a physician or Poison Control Center immediately. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down.
Notes to Physician	Treat symptomatically.
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

# **5. FIRE-FIGHTING MEASURES**

Flammable Properties	Not flammable.
Flash Point	Not determined.
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Uniform Fire Code	Corrosive: Acid-Liquid
Hazardous Combustion Products	Hazardous metal fumes and oxides.
Explosion Data Sensitivity to Mechanical Impact	No.
Sensitivity to Static Discharge	No.
Specific Hazards Arising from the Chemical	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.
Protective Equipment and Precautions for Firefighters	

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>	Health Hazard 3	Flammability 0	Stability 2	Physical and Chemical Hazards
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## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not get in eyes, on skin, or on clothing.
<b>Environmental Precautions</b>	Refer to protective measures listed in Sections 7 and 8.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	In case of rupture: Use personal protective equipment. Dam up. Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly.
Other Information	Refer to protective measures listed in Sections 7 and 8.

## 7. HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practice.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lead 7439-92-1	TWA: 0.05 mg/m3	TWA: 50 μg/m3 Action Level: 30 μg/m3 Poison, See 29 CFR 1910.1025	IDLH: 100 mg/m3 TWA: 0.050 mg/m3
Sulfuric acid	TWA: 0.2 mg/m3 thoracic	TWA: 1 mg/m3 (vacated)	IDLH: 15 mg/m3 TWA: 1
7664-93-9	fraction	TWA: 1 mg/m3	mg/m3
Tin 7440-31-5	TWA: 2 mg/m3	TWA: 2 mg/m3 Sn except oxides (vacated) TWA: 2 mg/m3	IDLH: 100 mg/m3 TWA: 2 mg/m3

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value.

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits.

NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).
Engineering Measures	Showers Eyewash stations Ventilation systems
Personal Protective Equipment	·
Eye/Face Protection	Tightly fitting safety goggles.
Skin and Body Protection	Wear protective gloves/clothing.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor Threshold pH	No information available No information available No information available	Odor Physical State	Odorless. Solid
Flash Point	No information available.	Auto-ignition Temperature	No information available
Decomposition Temperature	No information available	Boiling Point/Range	No information available
Melting Point/Range	No information available		
Flammability Limits in Air	No information available	Explosion Limits	No information available
Water Solubility	Immiscible in water	Solubility	No information available
Evaporation Rate	No information available	Vapor Pressure	No data available
Vapor Density	No data available	Coefficient: noctanol/water	

## **10. STABILITY AND REACTIVITY**

Stability Incompatible Products Conditions to Avoid	Stable under recommended storage conditions. Incompatible with strong acids and bases. Incompatible with oxidizing agents. Exposure to air or moisture over prolonged periods.
Hazardous Decomposition Products	Thermal decomposition can lead to release of toxic/corrosive gases and vapors
Hazardous Polymerization	Hazardous polymerization does not occur.

## **11. TOXICOLOGICAL INFORMATION**

#### Acute Toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
Irritation	Causes severe irritation and or burns

#### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulfuric acid	= 2140 mg/kg ( Rat )	-	= 510 mg/m3( Rat ) 2 h

#### **Chronic Toxicity**

Chronic Toxicity	Lead compounds may be absorbed by ingestion, by inhalation and through the skin. Lead may damage kidney function, the blood forming system and the reproductive system. Avoid repeated exposure.
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**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Lead	A3	Group 2A	Reasonably Anticipated	Х
Sulfuric acid	A2	Group 1	Known	Х
ABS resin		Group 3		

## ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen A3 - Animal Carcinogen IARC: (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans Group 2A - Probably Carcinogenic to Humans NTP: (National Toxicity Program) Known - Known Carcinogen Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen OSHA: (Occupational Safety & Health Administration) X - Present

 Reproductive Toxicity
 Product is or contains a chemical which is a known or suspected reproductive hazard.

 Developmental Toxicity
 Contains ingredients that have suspected developmental hazards. Inorganic lead compounds can cause developmental damage.

## **12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Lead		LC50: 0.44 mg/L (96 h semi-static) Cyprinus carpio LC50: 1.17 mg/L (96 h flow-through) Oncorhynchus mykiss LC50: 1.32 mg/L (96 h static) Oncorhynchus mykiss		EC50: 600 µg/L (48 h ) water flea
Sulfuric acid		LC50: > 500 mg/L (96 h static) Brachydanio rerio		EC50: 29 mg/L (24 h ) Daphnia magna

## **13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Should not be released into the environment.

Contaminated Packaging Do not re-use empty containers.

US EPA Waste Number D002 D008

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Lead - 7439-92-1	(hazardous constituent - no waste number)	Included in waste streams: F035, F037, F038, F039, K002, K003, K005, K046, K048, K049, K051, K052, K061, K062, K064, K065, K066, K069, K086, K100, K176	= 5.0 mg/L regulatory level	

#### California Hazardous Waste Codes 792

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California EHW	California Carc	California Hazardous Waste	California Waste - Part 2
Lead			Toxic	TCLP (for CA Toxicity): 5.0 mg/L
Sulfuric acid			Toxic Corrosive	
Calcium	Ignitable Reactive			

## **14. TRANSPORT INFORMATION**

Note: Transportation requirements do not apply once the battery pack has been installed in an equipment as part of the equipment's functional components.

Transportation: Absorptive Glass-Fiber Material Lead Acid Battery is not a DOT Hazardous Material Other: Per DOT, IATA, ICAO, and IMDG rules and regulations, these batteries are exempt from "UN2800" classification as a result of successful completion of the following tests:

1.) Vibration tests

2.) Pressure Differential Tests

3.) Case Rupturing Tests (no free liquids)

Note:		Exempt from hazardous materials regulations per 49CFR173.159 (d).
DOT	Description	NOT REGULATED NON-SPILLABLE BATTERY
TDG	Description	Not regulated NON-SPILLABLE BATTERY
MEX	Description	Not regulated NON-SPILLABLE BATTERY
ICAO Descript	tion	Not regulated NON-SPILLABLE BATTERY
ΙΑΤΑ	Description	Not regulated NON-SPILLABLE BATTERY
IMDG/IMO Description		Not regulated NON-SPILLABLE BATTERY

## **15. REGULATORY INFORMATION**

#### **International Inventories**

TSCA	Complies
DSL	Not determined

## **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals that are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Lead	7439-92-1	65~75	0.1
Sulfuric acid	7664-93-9	10~20	1.0

SARA 311/312 Hazard Categories Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Lead		Х	Х	
Sulfuric acid	1000 lb			X

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances that are listed hazardous air pollutants (HAPS) under Section 112 of the Clean

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Lead	7439-92-1	65~75				

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Lead	10 lb	
Sulfuric acid	1000 lb	1000 lb

#### U.S. State Regulations

## California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Lead	7439-92-1	Carcinogen Developmental Female Reproductive Male Reproductive
Sulfuric acid	7664-93-9	Carcinogen

## U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Lead	Х	Х	Х	Х	Х
Tin	X	Х	Х		
Calcium	Х	Х	Х		
Sulfuric acid	Х	Х	Х	Х	Х

#### International Regulations

Mexico - Grade Minimum risk, Grade 0

Chemical Name	Carcinogen Status	Exposure Limits
Lead	A3	Mexico: TWA= 0.15 mg/m3
Tin		Mexico: TWA 2 mg/m3 Mexico: STEL 4
1111		mg/m3
Sulfuric acid	A2	Mexico: TWA 1 mg/m3

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### **WHMIS Hazard Class**

D2A Very toxic materials E Corrosive material



NPRI
Х
Х

#### Legend

NPRI - National Pollutant Release Inventory

## **16. OTHER INFORMATION**

Prepared By	5th Floor, Xinbaohui Bldg., Nanhai Blvd.		
	Kevin Zhang, Nanshan, Shenzhen, China. 518054 86-0755-2606-7267		
Issuing Date	Nov. 1, 2014		
Revision Date	March 2, 2015		
Revision Note	No information available		
General Disclaimer			

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

Printing date 01/22/2015

Reviewed on 01/22/2015

## **1** Identification

#### Product identifier

- · Trade name: Li-MnO2 Button Cell
- Article number: CR2032
- · Application of the substance / the mixture Lithium-based battery product.

## Details of the supplier of the Safety Data Sheet

## · Manufacturer/Supplier:

Jintan Chaochuang Battery Company Limited Xiyang Industrial Estate, Maolu Town Jintan City, Jiangsu Province, China Phone: +86-519-82483588 Fax: +86-755-29369623

· Emergency telephone number: +86-519-82483588

## 2 Hazard(s) identification

## Classification of the substance or mixture



GHS02 Flame

Water-react. 3 H261 In contact with water releases flammable gas. • Additional information: There are no other hazards not otherwise classified that have been identified. 0 percent of the mixture consists of ingredient(s) of unknown toxicity.

## · Label elements

## · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). **Hazard pictograms** 



## · Signal word Warning

- · Hazard-determining components of labeling:
- lithium

## · Hazard statements

H261 In contact with water releases flammable gas.

## · Precautionary statements

P280 Wear protective gloves and eye protection.

P370+P378 In case of fire: Use for extinction: Fire-extinguishing powder.

- P402+P404 Store in a dry place. Store in a closed container.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## • Additional information:

Information references exposures to battery contents, and not exposures to whole units. Exposures to whole units are unlikely to produce health hazards.

(Contd. on page 2)

Printing date 01/22/2015

Reviewed on 01/22/2015



## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

#### · Dangerous components: 1313-13-9 manganese dioxide 25-50% STOT RE 2. H373 🔥 Acute Tox. 4, H302; Acute Tox. 4, H332 7791-03-9 lithium perchlorate 2.5-10% 🛞 Ox. Sol. 1, H271 i Acute Tox. 3, H301 🔆 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 propylene carbonate 2.5-10% 108-32-7 🕐 Eye Irrit. 2, H319 7439-93-2 lithium <u>≤ 2.5%</u> Water-react. 1, H260 A Skin Corr. 1B, H314 110-71-4 1,2-dimethoxyethane < 2.5% 🚸 Flam. Liq. 2, H225 \lambda Repr. 1B, H360 Acute Tox. 4, H332 (Contd. on page 3)

Printing date 01/22/2015

Reviewed on 01/22/2015

## Trade name: Li-MnO2 Button Cell

(Contd. of page 2)

## · Additional information:

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

## 4 First-aid measures

#### · Description of first aid measures

· General information:

Information references exposures to battery contents, and not exposures to whole units. Exposures to whole units are unlikely to produce health hazards.

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

## · After inhalation:

Unlikely route of exposure.

Supply fresh air; consult doctor in case of complaints.

#### • After skin contact:

Unlikely route of exposure.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate medical help for blistering or open wounds.

#### After eye contact:

Unlikely route of exposure.

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing: Do not induce vomiting; immediately call for medical help.

#### Information for doctor:

· Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Danger Danger of gastric perforation.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **5** Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:

Fire-extinguishing powder

Sand

- Water in flooding quantities.
- For safety reasons unsuitable extinguishing agents: None.
- Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

- Wear fully protective suit.
- · Additional information

Eliminate all ignition sources if safe to do so.

(Contd. on page 4)

Printing date 01/22/2015

Reviewed on 01/22/2015

Trade name: Li-MnO2 Button Cell

(Contd. of page 3)

Cool endangered receptacles with water in flooding quantites.

## 6 Accidental release measures

## · Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

If containers are leaking, use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away.

• Environmental precautions: Do not allow to enter sewers/ surface or ground water.

## Methods and material for containment and cleaning up:

Use inert material (clay, sawdust, kaolin) to absorb material and sweep up. Prevent spilled material from entering sewers, drains, bodies of water.

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

## · Handling:

## Precautions for safe handling

Information is only applicable to product contents, and not to product as normally supplied. This information is applicable to damaged, leaking, or spilled product as contact with contents is possible under these conditions.

Keep away from open flames or temperatures exceeding manufacturer ratings. DO NOT ATTEMPT TO OPEN SEALED CELLS OR BATTERIES – BATTERY CONTENTS MAY PRESENT SERIOUS SAFETY AND HEALTH HAZARDS. SHORT-CIRCUITING THE TERMINALS OF A DEVICE MAY RESULT IN DAMAGE TO DEVICE AND ANY NEARBY OBJECTS OR PERSONNEL.

## · Information about protection against explosions and fires:

Prevent impact and friction.

Substance/product is ignitable under certain conditions.

 $^{\rm \cdot}$  Conditions for safe storage, including any incompatibilities

· Storage:

## · Requirements to be met by storerooms and receptacles:

Store in a dry, well-ventilated place.

Do not use or store near open flame.

Avoid extreme temperatures; battery may rupture and release contents.

Do not store and transport with incompatible materials.

Store individual batteries or cells only in approved packaging in order to avoid inadvertent short circuits, as this may result in damage to device, nearby objects, personnel, or all of the above.

## Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from water.

Do not store together with acids.

(Contd. on page 5)

Printing date 01/22/2015

Reviewed on 01/22/2015

Trade name: Li-MnO2 Button Cell

(Contd. of page 4)

## • Further information about storage conditions: Store in dry conditions. Protect from humidity and water.

• Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parame	eters	
· Components w	ith limit values that require monitoring at the workplace:	
1313-13-9 man	ganese dioxide	
PEL (USA)	Ceiling limit value: 5 mg/m³ as Mn	
REL (USA)	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ as Mn	
TLV (USA)	Long-term value: 0.02* 0.1* mg/m <sup>3</sup> as Mn; *respirable **inhalable fraction	
EL (Canada)	Long-term value: 0.2 mg/m³ as Mn; R	
LMPE (Mexico)	Long-term value: 0.2 mg/m³ como Mn	
7782-42-5 Grap	hite	
PEL (USA)	Long-term value: 15 mppcf* mg/m <sup>3</sup> *impinger samples counted by light field techn.	
REL (USA)	Long-term value: 2.5* mg/m³ *respirable dust	
TLV (USA)	Long-term value: 2* mg/m <sup>3</sup> all forms except graphite fibers;*resp. fraction	
EL (Canada)	Long-term value: 2 mg/m <sup>3</sup> respirable	
EV (Canada)	Long-term value: 2 mg/m <sup>3</sup> respirable	
LMPE (Mexico)	Long-term value: 2* mg/m <sup>3</sup> *fracción respirable	
110-71-4 1,2-di	methoxyethane	
EV (Canada)	Long-term value: 18 mg/m³, 5 ppm Skin	
• Additional info	<b>rmation:</b> The lists that were valid during the creation were used as basis.	(Contd. on page 6)

Printing date 01/22/2015

Reviewed on 01/22/2015

Trade name: Li-MnO2 Button Cell

(Contd. of page 5)

## Exposure controls

· Personal protective equipment:

## · General protective and hygienic measures:

Information is only applicable to product contents, and not to product as normally supplied. This information is applicable to damaged, leaking, or spilled product as contact with contents is possible under these conditions.

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

• Engineering controls: No further relevant information available.

## • Breathing equipment:

Not required under normal conditions of use.

For spills, respiratory protection may be advisable.

## • Protection of hands:

Not required under normal conditions of use.

Wear protective gloves to handle contents of damaged or leaking units.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

## Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

## • Eye protection:



Safety glasses

## · Body protection:

Not required under normal conditions of use.

Protection may be required for spills.

· Limitation and supervision of exposure into the environment Avoid release to the environment.

## **9** Physical and chemical properties

- · Information on basic physical and chemical properties
- General Information
- · Appearance:
  - Form:

Impermeable container containing liquid and solid contents plus inert carrier materials. Silver grev

Color:

(Contd. on page 7)

Printing date 01/22/2015

#### Trade name: Li-MnO2 Button Cell

(Contd. of page 6) · Odor: Odorless · Odor threshold: Not determined. · pH-value: Not applicable. · Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: Undetermined. · Flash point: Not applicable. · Flammability (solid, gaseous): Not determined. · Auto-ignition temperature: Not determined. Not determined. · Decomposition temperature: • Auto igniting: Product is not self-igniting. · Danger of explosion: Product does not represent an explosion hazard during normal use. Leaking contents may react with water to produce explosive or flammable gas. • Explosion limits: Lower: Not determined. Upper: Not determined. · Vapor pressure: Not applicable. · Density: Not determined. · Relative density Not determined. · Vapour density Not applicable. · Evaporation rate Not applicable. · Solubility in / Miscibility with Water: Not miscible or difficult to mix. · Partition coefficient (n-octanol/water): Not determined. · Viscosity: **Dynamic:** Not applicable. Kinematic: Not applicable. · Other information No further relevant information available.

## 10 Stability and reactivity

· Reactivity	
· Chemical stability	
Thermal decomposition / conditions to be avoided:	
No decomposition if used and stored according to specifications.	
Possibility of hazardous reactions	
Hazardous reactions generally occur with contents of leaking batteries only.	
Strong exothermic reaction with acids.	
Toxic fumes may be released if heated above the decomposition point.	
Reacts violently with water.	
	(Contd. on page 8)

(Contd. of page 7) Contact with water will cause spontaneous hydrolysis (Can be explosive!). Conditions to avoid Keep away from heat and direct sunlight. Incompatible materials: Reducing agents, combustible materials, moisture, contact with metals. Hazardous decomposition products: Carbon monoxide and carbon dioxide Contact with decomposition products does not normally occur; informaton is applicable only to damaged devices. Flammable gases/vapors Toxic metal oxide smoke Chlorine compounds Information on toxicological effects

## Acute toxicity:

## · LD/LC50 values that are relevant for classification:

#### 110-71-4 1,2-dimethoxyethane

Oral LD50 5370 mg/kg (rat)

#### Primary irritant effect:

· on the skin: Strong caustic effect in case of contact with electroyte only.

• on the eye: Strong caustic effect in case of contact with electroyte only.

· Sensitization: No sensitizing effects known.

· Subacute to chronic toxicity: No further relevant information available.

· Additional toxicological information:

Information references exposures to battery contents, and not exposures to whole units. Exposures to whole units are unlikely to produce health hazards.

Harmful if swallowed.

Harmful if inhaled.

Product is suspected to cause birth defects.

The product can cause inheritable damage.

· Carcinogenic categories

#### • NTP (National Toxicology Program)

None of the ingredients is listed.

## · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

#### · Probable Routes of Exposure

Ingestion.

Skin contact.

• Repeated Dose Toxicity: May cause damage to organs through prolonged or repeated exposure.

## **12 Ecological information**

· Toxicity

• Aquatic toxicity: The product contains materials that are harmful to the environment.

• Persistence and degradability Not easily biodegradable

(Contd. on page 9)

Reviewed on 01/22/2015

# acc. to USHA HCS (29 CFR 191

Printing date 01/22/2015

date 01/22/2015

Trade name: Li-MnO2 Button Cell

Printing date 01/22/2015

Reviewed on 01/22/2015

Trade name: Li-MnO2 Button Cell

(Contd. of page 8)

· Behavior in environmental systems:

· Bioaccumulative potential No further relevant information available.

• Mobility in soil No further relevant information available.

## Additional ecological information:

## · General notes:

This statement was deduced from the properties of the single components.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## · Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- vPvB: Not applicable.

· Other adverse effects No further relevant information available.

## **13 Disposal considerations**

## · Waste treatment methods

## · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

## · Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

## **14 Transport information**

- · UN-Number · DOT, ADR, IMDG, IATA
- · UN proper shipping name · DOT
- ADR
- · IMDG, IATA
- Transport hazard class(es)

· DOT, IMDG, IATA

· Class · Label UN3090

Lithium battery 3090 LITHIUM METAL BATTERIES LITHIUM METAL BATTERIES

9 Miscellaneous dangerous substances and articles

9

(Contd. on page 10)

# Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 01/22/2015

Reviewed on 01/22/2015

Trade name: Li-MnO2 Button Cell	
	(Contd. of page 9)
ADR	
ally.	
s.	
Class Label	9 (M4) Miscellaneous dangerous substances and articles 9
· Packing group · DOT, IMDG, IATA	П
	Not Regulated
· Environmental nazaros: · Marine pollutant:	No
Special marking (IATA):	Prohibited from Transport in Passenger Aircraft.
Cargo Aircraft Only.	
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
<ul> <li>Danger code (Kemler):</li> <li>EMS Number:</li> </ul>	- F-A,S-I
Transport in bulk according to Annex II of	Net englischie
MARPOL/3/78 and the IBC Code	Not applicable.
· Transport/Additional Information:	Contains 0.0651 g equivalent lithium 210 mAh, 3.0 Volts (0.63 Watt-hours)
·DOT	
· Remarks:	Per 173.185(c): Packages containing 1 or 2 batteries are exempt from classification as dangerous goods. The outer package that contains lithium metal cells or batteries must be marked: "LITHIUM METAL BATTERIES-FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT." The package must be marked in accordance with 173.185(c) (3)(i) and accompanied with a document in accordance with 173.185(c)(3)(ii).
ADR	
Excepted quantities (EQ)	Not permitted as Excepted Quantity
· Remarks:	Per Special provision 188: Packages containing 1 or 2 batteries are exempt from classification as dangerous goods. The package must be marked in accordance with Special Provision 188(f) and accompanied with a document in accordance with Special Provision 188(g).
·IMDG	<u> </u>
<ul> <li>Limited quantities (LQ)</li> </ul>	0 (Contd. on page 11)

Printing date 01/22/2015

Reviewed on 01/22/2015

Trade name: Li-MnO2 Button Cell				
	(Contd. of page 10)			
<ul> <li>Excepted quantities (EQ)</li> </ul>	Code: E0 Not permitted as Excepted Quantity			
· Remarks:	Per Special Provision 188: Packages containing 1 or 2 batteries are exempt from classification as dangerous goods. The package must be marked in accordance with Special Provision 188.6 and accompanied with a document in accordance with Special Provision 188.7.			
· Remarks:	<ul> <li>Per Packing Instruction 968, Section II: Packages containing 1 or 2 batteries are exempt from classification as dangerous goods. Use of the Lithium Batteries Label (Figure 7.4.H) is required. The product must be accompanied by a document stating the following:</li> <li>the package contains lithium ion cells or batteries;</li> <li>the package must be handled with care and that a flammability hazard exists if the package is damaged;</li> <li>special procedures must be followed in the event the package is damaged, to include inspection and re-packing if necessary; and</li> <li>a telephone number for additional information.</li> </ul>			
· UN "Model Regulation":	Per Packing Instruction 968, Section 1B: Packages containing 3 or more batteries must be assigned to Class 9 and are subject to all of the applicable provisions. UN specification packaging is not required. Use of the Lithium Batteries Label (Figure 7.4.H) is required. The product must be accompanied by a document as described in Section II. UN3090, Lithium battery, 9			

## 15 Regulatory information

 $^{\rm \cdot}$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $^{\rm \cdot}$  SARA

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

1313-13-9 manganese dioxide

110-71-4 1,2-dimethoxyethane

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65 (California)

· Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

(Contd. on page 12)

Printing date 01/22/2015	Reviewed on 01/22/2015
Trade name: Li-MnO2 Button Cell	
	(Contd. of page 11)
• Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
1313-13-9 manganese dioxide	D
7791-03-9 lithium perchlorate	NL
· IARC (International Agency for Research on Cancer)	
9003-07-0 Polypropylene	3
9002-84-0 Polytetrafluoroethylene	3
• TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients is listed.	
• NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· State Right to Know Listings	
None of the ingredients is listed.	
· Canadian substance listings:	
· Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
· Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	
· Canadian Ingredient Disclosure list (limit 1%)	
108-32-7 propylene carbonate	
• Other regulations, limitations and prohibitive regulations This product has been classified in accordance with hazard criteria of th and the SDS contains all the information required by the Controlled Proc • Chemical safety assessment: A Chemical Safety Assessment has not	le Controlled Products Regulations Jucts Regulations.

## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision 01/22/2015 / -

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 13)

#### Printing date 01/22/2015

Reviewed on 01/22/2015

#### Trade name: Li-MnO2 Button Cell

(Contd. of page 12) ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Flam. Liq. 2: Flammable liquids, Hazard Category 2 Water-react. 1: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 1 Water-react. 3: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 3 Ox. Sol. 1: Oxidising Solids, Hazard Category 1 Acute Tox. 3: Acute toxicity, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Repr. 1B: Reproductive toxicity, Hazard Category 1B STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 Sources SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com



Page 1 of 4 Alkaline Batteries March 2015

## PRODUCT SAFETY DATA SHEET

PRODUCT NAME: Eveready / Energizer Battery	Type No.:	Volts:
<b>TRADE NAMES:</b> <u>ENERGIZER, ENERGIZER e<sup>2</sup>, INDUSTRIAL ZMA, HERCULES,</u> <u>EVEREADY, WONDER</u>	Approximate Weight	:

CHEMICAL SYSTEM: Alkaline Manganese Dioxide-Zinc

Energizer has prepared copyrighted Product Safety Datasheets to provide information on the different Eveready/Energizer battery systems. Batteries are articles as defined under the GHS and exempt from GHS classification criteria (Section 1.3.2.1.1 of the GHS). The information and recommendations set forth herein are made in good faith, for information only, and are believed to be accurate as of the date of preparation. However, ENERGIZER BATTERY MANUFACTURING, INC. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY FROM REFERENCE ON IT.

Designed for Recharge: No

#### SECTION 1 - MANUFACTURER INFORMATION

Energizer Battery Manufacturing, Inc. 25225 Detroit Rd. Westlake, OH 44145 Telephone Number for Information: 800-383-7323 (USA / CANADA)

Date Prepared: March 2015

#### SECTION 2 – HAZARDS IDENTIFICATION

#### GHS classification: N/A

Signal Word: N/A

#### Hazard Classification: N/A

Under normal conditions of use, the battery is hermetically sealed.

**Ingestion:** Swallowing a battery can be harmful. Contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.

Inhalation: Contents of an open battery can cause respiratory irritation.

Skin Contact: Contents of an open battery can cause skin irritation and/or chemical burns.

**Eye Contact:** Contents of an open battery can cause severe irritation and chemical burns.

#### **SECTION 3 - INGREDIENTS**

**IMPORTANT NOTE:** The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

MATERIAL OR INGREDIENT	PEL (OSHA)	TLV (ACGIH)	%/wt.
Graphite (CAS# 7782-42-5)	15 mg/m <sup>3</sup> TWA (total dust) 5 mg/m <sup>3</sup> TWA (respirable fraction)	2 mg/m <sup>3</sup> TWA (respirable fraction)	2-6
Manganese Dioxide (CAS# 1313-13-9)	5 mg/m <sup>3</sup> Ceiling (as Mn)	0.2 mg/m <sup>3</sup> TWA (as Mn)	30-45
Potassium Hydroxide (CAS# 1310-58-3)	None established	2 mg/m <sup>3</sup> Ceiling	4-8
Zinc (CAS# 7440-66-6)	15 mg/m <sup>3</sup> TWA PNOR* (total dust) 5 mg/m <sup>3</sup> TWA PNOR* (respirable fraction)	10 mg/m <sup>3</sup> TWA PNOC** (inhalable particulate) 3 mg/m <sup>3</sup> TWA PNOC** (respirable particulate)	12-25



Page 2 of 4 Alkaline Batteries March 2015

Non-Hazardous Components Steel	None established	None established	18-22
(iron CAS# 65997-19-5			
Water, Paper, Plastic and Other	None established	None established	Balance

\* PNOR: Particulates not otherwise regulated

\*\*PNOC: Particulates not otherwise classified

#### SECTION 4 – FIRST AID MEASURES

**Ingestion:** Do not induce vomiting or give food or drink. Seek medical attention immediately. CALL NATIONAL BATTERY INGESTION HOTLINE for advice and follow-up (202-625-3333) collect day or night.

**Inhalation:** Provide fresh air and seek medical attention.

**Skin Contact:** Remove contaminated clothing and wash skin with soap and water. If a chemical burn occurs or if irritation persists, seek medical attention.

**Eye Contact:** Immediately flush eyes thoroughly with water for at least 15 minutes, lifting upper and lower lids, until no evidence of the chemical remains. Seek medical attention.

#### **SECTION 5 - FIRE FIGHTING MEASURES**

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

Fire fighters should wear self-contained breathing apparatus.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

To cleanup leaking batteries:

Ventilation Requirements: Room ventilation may be required in areas where there are open or leaking batteries.

**Eye Protection:** Wear safety glasses with side shields if handling an open or leaking battery. **Gloves:** Use neoprene or natural rubber gloves if handling an open or leaking battery. Battery materials should be collected in a leak-proof container.

#### SECTION 7 - HANDLING AND STORAGE

Storage: Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life.

**Mechanical Containment:** If potting or sealing the battery in an airtight or watertight container is required, consult your Energizer Battery Manufacturing, Inc. representative for precautionary suggestions. Batteries normally evolve hydrogen which, when combined with oxygen from the air, can produce a combustible or explosive mixture unless vented. If such a mixture is present, short circuits, high temperature, or static sparks can cause an ignition.

Do not obstruct safety release vents on batteries. Encapsulation (potting) of batteries will not allow cell venting and can cause high pressure rupture.

**Handling:** Accidental short circuit for a few seconds will not seriously affect the battery. Prolonged short circuit will cause the battery to lose energy, and can cause the safety release vent to open. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, metal covered tables or metal belts used for assembly of batteries into devices.

If soldering or welding to the battery is required, consult your Energizer Battery Manufacturing, Inc. representative for proper precautions to prevent seal damage or short circuit.

**Charging:** This battery is manufactured in a charged state. It is not designed for recharging. Recharging can cause battery leakage or, in some cases, high pressure rupture. Inadvertent charging can occur if a battery is installed backwards.

**Labeling:** If the Eveready / Energizer Battery label or package warnings are not visible, it is important to provide a package and/or device label stating:

**WARNING:** do not install backwards, charge, put in fire, or mix with other battery types. May explode or leak causing injury. **Replace all batteries at the same time.** 

Where accidental ingestion of small batteries is possible, the label should include: Keep away from small children. If swallowed, promptly see doctor; have doctor phone (202) 625-3333 collect.



Page 3 of 4 Alkaline Batteries March 2015

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Requirements: Not necessary under normal conditions.

Respiratory Protection: Not necessary under normal conditions.

**Eye Protection:** Not necessary under normal conditions.

**Gloves:** Not necessary under normal conditions.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	Solid object
Upper Explosive Limits:	Not applicable for an Article
Lower Explosive Limits	Not applicable for an Article
Odor	No odor
Vapor Pressure (mm Hg @ 25°C)	Not applicable for an Article
Odor Threshold	No odor
Vapor Density (Air = 1)	Not applicable for an Article
рН	Not applicable for an Article
Density (g/cm <sup>3</sup> )	2.0 - 3.0
Melting point/Freezing Point	Not applicable for an Article
Solubility in Water (% by weight)	Not applicable for an Article
Boiling Point @ 760 mm Hg (°C)	Not applicable for an Article
Flash Point	Not applicable for an Article
Evaporation Rate (Butyl Acetate = 1)	Not applicable for an Article
Flammability	Not applicable for an Article
Partition Coefficient	Not applicable for an Article
Auto-ignition Temperature	Not applicable for an Article
Decomposition Temperature	Not applicable for an Article
Viscosity	Not applicable for an Article

## SECTION 10 - STABILITY AND REACTIVITY

Alkaline batteries do not meet any of the criteria established in 40 CFR 261.2 for reactivity.



Page 4 of 4 Alkaline Batteries March 2015

#### SECTION 11 – TOXICOLOGICAL INFORMATION

Under normal conditions of use, alkaline batteries are non-toxic.

#### SECTION 12 – ECOLOGICAL INFORMATION

Issues such as ecotoxicity, persistence and bioaccumulation are not applicable for articles.

#### SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable federal, state and local regulations. Appropriate disposal technologies include incineration and land filling.

#### SECTION 14 – TRANSPORT INFORMATION

In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in "strong outer packaging" that prevents spillage of contents. All original packaging for Energizer alkaline batteries has been designed to be compliant with these regulatory concerns.

Alkaline batteries (sometimes referred to as "Dry cell" batteries) are not listed as dangerous goods under the ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road, the IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulations, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). These batteries are not subject to the dangerous goods regulations provided they meet the requirements contained in the following special provisions.

ADRNot regulatedIMDGNot regulatedUNNot regulatedUS DOT49 CFR 172.102 Provision 130IATAA123ICAONot regulated	Regulatory Body	Special Provisions
IMDGNot regulatedUNNot regulatedUS DOT49 CFR 172.102 Provision 130IATAA123ICAONot regulated	ADR	Not regulated
UNNot regulatedUS DOT49 CFR 172.102 Provision 130IATAA123ICAONot regulated	IMDG	Not regulated
US DOT         49 CFR 172.102 Provision 130           IATA         A123           ICAO         Not regulated	UN	Not regulated
IATA A123 ICAO Not regulated	US DOT	49 CFR 172.102 Provision 130
ICAO Not regulated	IATA	A123
	ICAO	Not regulated

All Energizer alkaline batteries are packed in such a way to prevent short circuits or the generation dangerous quantities of heat and meet the special provisions listed above. In addition, the IATA Dangerous Goods Regulations and ICAO Technical Instructions require the words "not restricted" and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued.

#### SECTION 15 - REGULATORY INFORMATION

Batteries marketed by Energizer Battery Manufacturing, Inc. are not classified as dangerous goods by the US Department of Transportation or the major international regulatory bodies and are therefore not regulated.

SARA/TITLE III - As an article, this battery and its contents are not subject to the requirements of the Emergency Planning and Community Right-To-Know Act.

#### **SECTION 16 - OTHER INFORMATION**

None.