

# SHEET 0052690

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## Safety Data Sheet

Date of Issue: | Revision Date: 11 June, | Revision Number:  
| 2014 |

Imperial Supplies Part Number: 0052690

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

Product Form:

Product Name: Battery, Lithium Coin Cell (CR2032), 3.6V

CAS No:

Synonyms:

### 1.2. Intended Use of the Product

Use of the substance/mixture: Battery / Internal Battery Back-up.

### 1.3. Name, Address, and Telephone of the Responsible Party

Company

Hach Company

P.O.Box 389

Loveland, CO USA 80539

Phone: (970) 669-3050

### 1.4. Emergency Telephone Number

Emergency | (303) 623-5716 24 Hour Service, (515) 232-2533 8am - 4pm CST  
number |

## SECTION 2: HAZARDS IDENTIFICATION

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2.1. Classification of the Substance or Mixture  
Classification (GHS-US)

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|  
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2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)					
Signal Word (GHS-US)					
Hazard Statements (GHS-US)					
Precautionary Statements (GHS-US)					

2.3. Other Hazards  
Other Hazards Not Contributing to the Classification:

2.4. Unknown Acute Toxicity (GHS-US)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Name	Product identifier	%	Classification
			(GHS-US)

Full text of H-phrases: See Section 16

## 3.2. Mixture

Name	Product identifier	%	Classification
			(GHS-US)
Manganese Dioxide	1313-13-9	10-45	
Other components, each	Not applicable	40-70	
Propylene carbonate		3-9	
1,2-DIMETHOXYETHANE, 99+%	110-71-4	1.0-5.0	
Lithium		1-3	
Lithium perchlorate		0.3-1.5	

## SECTION 4: FIRST AID MEASURES

## 4.1. Description of First Aid Measures

First-aid Measures General: This product is a manufactured article as defined in 29 CFR 1910.1200. The ingredients are contained in a sealed case, designed to withstand the temperatures and pressures encountered in normal transportation, storage and use. Exposure risks occur only if battery is mechanically or electrically abused including subjection to excessive heat and/or pressure.

First-aid Measures After Inhalation: None required.

First-aid Measures After Skin Contact: Wash skin with plenty of water for 15 minutes. Remove contaminated clothing. Call physician immediately.

First-aid Measures After Eye Contact: Immediately flush eyes with water for 15 minutes. Call physician.

First-aid Measures After Ingestion: Call physician immediately.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries:

Symptoms/Injuries After Inhalation:

Symptoms/Injuries After Skin Contact:

Symptoms/Injuries After Eye Contact:

Symptoms/Injuries After Ingestion:

Chronic Symptoms:

## 4.3. Indication of Any Immediate Medical Attention and Special Treatment

Needed

Not reported.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide, Alcohol foam, Dry chemical.

Unsuitable Extinguishing Media:

### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: May explode or cause burns if disassembled, crushed or exposed to high temperatures. Shorting and/or installation with incorrect polarity may cause fire/explosion hazard.

Explosion Hazard:

Reactivity:

### 5.3. Advice for Firefighters

Precautionary Measures Fire:

Firefighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear. Containers can build up pressure if exposed to heat.

Protection During Firefighting:

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures:

Spill Response Notice: Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance.

Evacuation Procedure: Evacuate local area (15 foot radius or as directed by your facility's emergency response plan) if the article is broken and contents are spilled.

#### 6.1.1. For Non-emergency Personnel

Protective Equipment:

Emergency Procedures:

#### 6.1.2. For Emergency Responders

Protective Equipment:

Emergency Procedures:

### 6.2. Environmental Precautions

#### 6.3. Methods and Material for Containment and Cleaning Up

For Containment: Stop spilled material from being released to the environment.

Methods for Cleaning Up: Dispose of material in government approved hazardous waste facility.

#### 6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

Additional Hazards When Processed: Do not disassemble, apply excessive pressure or deform. Do not short circuit, charge or solder the battery directly. Avoid forced discharge of battery. Do not heat. May burst or release toxic materials.

Perchlorate Material - special handling may apply. In California, see

[www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate).

Hygiene Measures:

## 7.2. Conditions for Safe Storage, Including Any Incompatibilities

### Technical Measures:

Storage Conditions: Do not store in direct sunlight. Store in a cool, dry place.

Protect from: moisture acids/acid fumes, extreme temperatures.

## 7.3. Specific End Use(s)

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control Parameters

Precautionary Measures: Avoid contact with: acids/acid fumes sparks, flames and other ignition sources Protect from moisture.

TLV: Not applicable.

PEL: Not applicable.

For Occupational Exposure Limits (OEL) for ingredients, see section 3 - Composition/Information on Ingredients.:

## 8.2. Exposure Controls

Appropriate Engineering Controls	Not applicable.
Personal Protective Equipment	
Materials for Protective Clothing	
Hand Protection	
Eye Protection	Not applicable.
Skin and Body Protection	Not applicable.
Respiratory Protection	Inhalation Protection: Not applicable.
Thermal Hazard Protection	

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on Basic Physical and Chemical Properties

Physical State	Sealed can, canister or tube
Appearance	Battery
Odor	Not applicable
Odor Threshold	
pH	Not applicable
Relative Evaporation Rate (butylacetate=1)	Not applicable
Melting Point	Not applicable
Freezing Point	
Boiling Point	Not applicable
Flash Point	Not Applicable
Auto-ignition Temperature	Not Determined
Decomposition Temperature	
Flammability (solid, gas)	
Vapor Pressure	Not applicable
Relative Vapor Density at 20 °C	Not applicable
Relative Density	Not applicable
Specific Gravity	Not applicable
Solubility	Water: Not applicable
	Acid: Not applicable
	Other: Not applicable
Partition coefficient: n-octanol/water	Not applicable
Viscosity	
Lower Flammable Limit	Not Applicable
Upper Flammable Limit	Not Applicable

## 9.2. Other Information

Volatile Organic Compounds Content: Not applicable.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Acids, conductive materials, seawater, strong oxidizers.

## 10.2 Chemical Stability

Stable when stored under proper conditions.

## 10.3 Possibility of Hazardous Reactions

## 10.4 Conditions to Avoid

Contact with acid or acid fumes. Contact with water or steam. Excess moisture.

Exposure to direct sunlight. High temperatures exceeding 35 deg C.

## 10.5 Incompatible Materials

Acids, conductive materials, seawater, strong oxidizers.

## 10.6 Hazardous Decomposition Products

May emit acrid smoke and fumes.

Acrid or harmful gas during a fire.

# SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1. Information on Toxicological Effects

Acute Toxicity:

Skin Corrosion/Irritation:

Serious Eye Damage/Irritation:

Respiratory or Skin Sensitization: CMR Effects/Properties (carcinogenic, mutagenic or toxic to reproduction): This product does NOT contain any NTP listed chemicals.

This product does NOT contain any OSHA listed carcinogens.

Germ Cell Mutagenicity:

Carcinogenicity:

Reproductive Toxicity:

Specific Target Organ Toxicity (Single Exposure):

Specific Target Organ Toxicity (Repeated Exposure):

Aspiration Hazard:

Symptoms/Injuries After Inhalation: If broken open, may cause:



Symptoms/Injuries After Skin Contact:

Symptoms/Injuries After Eye Contact:

Symptoms/Injuries After Ingestion: If broken open, may cause: burns of the mouth and esophagus.

Chronic Symptoms: No effects anticipated.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Product Ecological Information: Do not place in landfill. Recycle appropriately.

Ingredient Ecological Information: No ecological data available for the ingredients of this product.

### 12.2. Persistence and Degradability

### 12.3. Bioaccumulative Potential

### 12.4. Mobility in Soil

### 12.5. Other Adverse Effects

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Waste Disposal Recommendations: Do NOT incinerate or subject battery to temperatures in excess of 212 degrees fahrenheit. Cells may rupture. Perchlorate Material - special handling may apply. In California, see [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate). Lithium- manganese dioxide batteries are not listed as a hazardous waste. Recycle at an approved recycling facility or dispose as ordinary waste.

Empty Containers: Not applicable.

Additional Information:

NOTICE (Disposal): These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information.

#### SECTION 14: TRANSPORT INFORMATION

##### 14.1 In Accordance with DOT

Proper Shipping Name	Lithium battery	
Hazard Class	9	<PICTOGRAM PHRASE>
Identification Number	UN3090	
Label Codes		
ERG Number		

##### 14.2 In Accordance with IMDG

Proper Shipping Name		
Hazard Class		
Identification Number		
Label Codes		<PICTOGRAM PHRASE>
ntification Of The		
Substance/m		
EmS-No. (Fire)		
EmS-No. (Spillage)		

##### 14.3 In Accordance with IATA

Proper Shipping Name		
Identification Number		<PICTOGRAM PHRASE>
Hazard Class		
Label Codes		
ntification Of The		
Substance/m		
ERG Code (IATA)		

#### SECTION 15: REGULATORY INFORMATION

## 15.1 US Federal Regulations

&lt;COMPONENT&gt;

O.S.H.A.: This product is an "Article" as defined in the Hazard Communication Standard (29 CFR. 1910.1200) E.P.A.:

S.A.R.A. Title III Section 311/312 Categorization (40 CFR 370): Not applicable,

S.A.R.A. Title III Section 313 (40 CFR 372): Not applicable.

302 (EHS) TPQ (40 CFR 355): Not applicable.

304 CERCLA RQ (40 CFR 302.4): Not applicable.

304 EHS RQ (40 CFR 355): Not applicable.

Clean Water Act (40 CFR 116,4): Not applicable.

RCRA: Contains no RCRA regulated substances.

SARA Section 311/312 Hazard Classes |

Toxic Substances Control Act (TSCA) |All ingredients within are listed on the TSCA  
|8 (b) Inventory (40 CFR 710).

## 15.2 US State Regulations

&lt;COMPONENT&gt;

California Prop. 65: Not applicable.

Identification of Prop. 65 Ingredient(s):

California Perchlorate Rule CCR Title 22 Chap 33: Yes.

Trade Secret Registry: Not applicable.

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date |11 June, 2014

Other |This document has been prepared in accordance with the SDS

Information |requirements of the OSHA Hazard Communication Standard 29 CFR  
|1910.1200.

GHS Full Text Phrases:

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