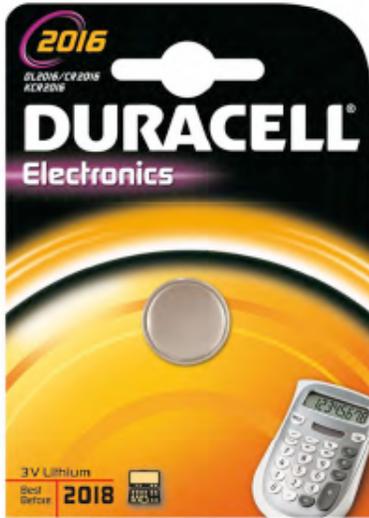


**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Product Name:** DURACELL LITHIUM MANGANESE DIOXIDE COIN CELLS



*Representative Product Image/  
Packaging*

<b>Identity:</b> Lithium Coin Cells <b>Description:</b> Consumer Product			
Size/Designation	Voltage	IEC Designation	Lithium Content per Cell (g)
1220	3	CR1220	0.011
1616	3	CR1616	0.02
1620	3	CR1620	0.025
2016	3	CR2016	0.03
2025	3	CR2025	0.05
2032	3	CR2032	0.07
2430	3	CR2430	0.09
2450	3	CR2450	0.15

**Product Use:** Energy Source

**PSDS Date of Preparation:** March 28, 2013 (replaces April 20, 2009); Updated May 1, 2015

**Company Identification:**

**EUROPEAN OFFICE**

Procter & Gamble  
 Switzerland SARL  
 Route de Saint-Georges 47  
 1213 Petit-Lancy, 1, Geneva,  
 Telephone: +41-58-004-6111

**US Office**

Duracell, a P&G brand  
 Berkshire Corporate Park  
 Bethel, CT 06801 USA  
 Telephone: 203-796-4000

**SECTION 2: HAZARDS IDENTIFICATION**

These products are classified as Articles under REACH and are not subject to the requirements for Information in the Supply Chain (Safety Data Sheets and Labels). While batteries may release hazardous substances if damaged, this is not an intended release as defined under REACH. Batteries are not classified as hazardous under the CLP.

The following information is provided to assist in the safe use of our products.

CAUTION: Battery can explode or leak if heated, disassembled, shorted, recharged, exposed to fire or high temperature or inserted incorrectly. Keep in original package until ready to use. Do not carry batteries loose in your pocket or purse. Keep batteries away from children. If swallowed, consult a physician at once. Under certain misuse conditions and by abusively opening the battery, exposed lithium can react with water or moisture in the air causing potential thermal burns or fire.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	EINECS Number	Amount
Manganese Dioxide	1313-13-9	215-202-6	15-75 %
Propylene Carbonate	108-32-7	203-572-1	2-15 %
Lithium	7439-93-2	231-102-5	1-10 %
Graphite, synthetic	7440-44-0	231-153-3	1-10 %
1,2-Dimethoxyethane*	110-71-4	203-794-9	1-10 %
Lithium Perchlorate	7791-03-9	232-237-2	<1.5 %

\*SVHC Substance per Candidate List Updated June 18, 2012

### SECTION 4: FIRST AID MEASURES

**General Advice:** The chemicals and metals in this product are contained in a sealed can. Exposure to the contents will not occur unless the battery leaks, is exposed to high temperatures or is mechanically, physically, or electrically abused.

**Eye Contact:** If battery is leaking and material contacts the eye, flush thoroughly with copious amounts of running water for 30 minutes. Seek immediate medical advice.

**Skin Contact:** If battery is leaking and material contacts the skin, remove any contaminated clothing and flush exposed skin with copious amounts of running water for at least 15 minutes. If irritation, injury or pain persists, seek medical advice.

**Inhaled:** If battery is leaking, contents may be irritating to respiratory passages. Move to fresh air. If irritation persists, seek medical advice.

**Swallowed:** If battery is swallowed seek immediate medical advice. Batteries lodged in the esophagus should be removed immediately since leakage, caustic burns and perforation can occur as soon as two hours after ingestion. If mouth area irritation or burning has occurred, rinse the mouth and surrounding area with tepid water for at least 15 minutes. Do not give ipecac.

**Note to Physician:** Published reports recommend removal from the esophagus be done endoscopically (under direct visualization). Batteries beyond the esophagus need not be retrieved unless there are signs of injury to the GI tract or a large diameter battery fails to pass the pylorus. If asymptomatic, follow-up x-rays are necessary only to confirm the passage of larger batteries. Confirmation by stool inspection is preferable under most circumstances. Potential leakage of less than 50 milligrams of dimethoxyethane and propylene carbonate. Dimethoxyethane rapidly evaporates. Do not give ipecac.

### SECTION 5: FIRE FIGHTING MEASURES

**Fire and Explosion Hazards:** Batteries may burst and release hazardous decomposition products when exposed to a fire situation.

**Extinguishing Media:** Use any extinguishing media that is appropriate for the surrounding fire.

**Special Fire Fighting Procedures:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Fight fire from a distance or protected area. Cool fire exposed batteries to prevent rupture. Use caution when handling fire-exposed containers (batteries may explode in heat of fire).

**Hazardous Combustion Products:** Thermal degradation may produce hazardous fumes of lithium and manganese; oxides of carbon and other toxic by-products.

Detailed information on fighting a lithium metal battery fire can be found in Gide 138 of the US DOT Emergency Response Guide (<http://phmsa.dot.gov/hazmat/library.org>).

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Notify safety personnel of large spills. Irritating vapors and flammable may be released from leaking or ruptured batteries. Eliminate all ignition sources. Evacuate the area and allow the vapors to dissipate. Clean-up personnel should wear appropriate protective clothing to avoid eye and skin contact and inhalation of vapors or fumes. Increase ventilation. Carefully collect batteries and place in an appropriate container for disposal. Remove spilled liquid with absorbent and contain for disposal.

## SECTION 7: HANDLING AND STORAGE

Avoid mechanical or electrical abuse. DO NOT short circuit or install incorrectly. Batteries may explode, pyrolize or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions. Replace all batteries in equipment at the same time. Do not carry batteries loose in a pocket or bag.

**Storage:** Store batteries in a dry place at normal room temperature.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits:** No exposure to the battery components should occur during normal use.

**Ventilation:** No special ventilation is needed for normal use.

**Respiratory Protection:** None required for normal use.

**Skin Protection:** None required for normal use. Use butyl rubber gloves when handling leaking batteries.

**Eye Protection:** None required for normal use. Wear safety goggles when handling leaking batteries.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** Coin cells.

**Water Solubility:** Insoluble

**Flash Point:** 29°F (-2°C) (1,2-Dimethoxyethane)

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** This product is stable.

**Incompatibility/Conditions to Avoid:** Contents are incompatible with strong oxidizing agents. Do not heat, crush, disassemble, short circuit or recharge.

**Hazardous Decomposition Products:** Thermal decomposition may produce hazardous fumes of lithium and manganese; oxides of carbon and other toxic by-products.

**Hazardous Polymerization:** Will not occur

#### SECTION 11: TOXICOLOGICAL INFORMATION

**Potential Health Effects:** The chemicals and metals in this product are contained in a sealed can. Exposure to the contents will not occur unless the battery leaks, is exposed to high temperatures or is mechanically, physically, or electrically abused.

**Eye Contact:** Contact with battery contents may cause irritation.

**Skin Contact:** Contact with battery contents may cause irritation.

**Inhalation:** Inhalation of vapors or fumes released due to heat or a large number of leaking batteries may cause respiratory and eye irritation.

**Ingestion:** Seek immediate medical advice. Batteries lodged in the esophagus should be removed immediately since leakage, caustic burns and perforation can occur as soon as two hours after ingestion. Irritation to the internal/external mouth areas, may occur following exposure to a leaking battery.

#### SECTION 12: ECOLOGICAL INFORMATION

No ecotoxicity data is available. This product is not expected to present an environmental hazard.

#### SECTION 13: DISPOSAL INFORMATION

Disposal should be in accordance with national and local regulations. Do not incinerate for disposal except for in a controlled incinerator.

Duracell manganese dioxide lithium coin cell batteries are labeled in compliance with the EU Battery Directive 2006/66.

#### SECTION 14: TRANSPORT INFORMATION

**Emergency Phone Number:**

**CHEMTREC 24-Hour Emergency Response Hotline  
+703-527-3887 (United States of America)**

**The information in this section is provided for informational purposes only.**

**DURACELL lithium metal batteries are produced and delivered in accordance with IATA 56th ICAO, IMO and US DOT Regulations.** DURACELL lithium metal cells and batteries are not subject to the other provisions of the Dangerous Goods regulations as long as they are packaged and marked in accordance with the appropriate regulations.

All persons who prepare or offer lithium batteries for transport are required by regulation to be sufficiently trained and aware of all applicable regulations. Regulatory guidance for safe packaging requires that batteries be packaged

in a manner that prevents short circuits, prevent battery movement within the package and that prevents spillage of contents.

<b>DURACELL Primary Lithium Metal Batteries</b>
<b>UN3090</b> Primary lithium metal batteries <b>UN3091</b> Primary lithium metal batteries packed with or contained in equipment
<b>UN 38.3 Transportation Tests :</b> <b>DURACELL</b> certifies that all of its lithium batteries meet the requirements of the UN Manual of Tests and Criteria, Part III subsection 38.3 and the batteries were
<b>US DOT:</b> Special Provision 49CFR-173.1859(c) – SP A101
<b>Air Transport IATA/ICAO:</b> <b>Special Provisions</b> A88, A99, A154, A164, A183, A201 PI 968 – Lithium metal batteries only PI 969 – Lithium metal batteries packed with equipment PI 970 – Lithium metal batteries contained in equipment
<b>Marine/Water Transport (IMDG):</b> Special Provision 188, 230, 310, 957
<b>ADR:</b> Special Provisions: 188, 230, 310, 957
<b>Air travelers</b> should consult the US Department of Transportation (DOT) Safety Travel web site at <a href="http://safetravel.dot.gov">http://safetravel.dot.gov</a> for guidance regarding carry on of lithium batteries.

The gram weight of lithium metal in Duracell lithium metal cells & batteries is:

<b>Catalog Number</b>	<b>Total Lithium Content</b>	<b>Description</b>
DL 1616	.02 g	Coin Cell
DL 1620	.02 g	Coin Cell
DL 2016	.02 g	Coin Cell
DL 2025	.07g	Coin Cell
DL 2032	.07 g	Coin Cell
DL 2430	.07 g	Coin Cell
DL 2450	.15 g	Coin Cell

## SECTION 15: REGULATORY INFORMATION

**EU BATTERY DIRECTIVE:** These batteries comply with the Directive substance limits and labeling requirements.

**EU REACH REGISTRATION:** These products are manufactured articles and not subject to REACH registration requirements.

**EU REACH SVHC:** These products contains 1, 2-dimethoxyethane (ethylene glycol dimethyl ether) which is listed on the Candidate List of Substances of Very High Concern.

**EU Labeling:** Labeling is not required because batteries are classified as articles under the both REACH and the Dangerous Preparations Directive and as such are exempt from the requirement for labeling.

**SECTION 16: OTHER INFORMATION**

**P&G Hazard Rating:**    Health: 0            Fire: 0            Reactivity: 0

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Data supplied is for use only in connection with occupational safety and health.

**DISCLAIMER:** This PSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.