

# VARTA LITHIUM Coin CR2016 Blister 2



Premium product for a wide range of small electronic devices. Provides reliable powersource with high level performance guaranteed.



## Information

- Guaranteed storage time of 10 years
- Operation over wide temperature range
- Battery type in Top 5 bestselling special batteries
- Unique and modern VARTA beam-shape embossing
- Child safety packaging for maximum security
- Batteries can only be accessed by scissors
- Clear warnings to keep batteries away from children
- Compliant to IEC 60086-4/ Ed5 packaging and designation
- VARTA brand quality ensured
- 55% recycled packaging material
- Battery cavities for secure opening

## Article Details

Ordernumber	06016 101 402
Customs Tariff Number	85065030
Country Of Origin	China
IEC	CR2016
Others	CR2016
System	Primary Lithium Button
Voltage	3.00
Consumer Unit	2
Packaging Information	Single Blister

Logistical Data	Content (SU)	GTIN / EAN	Facing (mm)	Depth (mm)	Height (mm)	Weight (kg)
VBE (Selling unit)	1	40 08496 746385	80.00	7.00	120.00	0.01
SK2 (Inner carton 2)			0.00	0.00	0.00	0.00
SK1 (Inner carton 1)	10	40 08496 746392	128.00	45.00	85.00	0.10
VSK (Master carton)	100	40 08496 746408	140.00	425.00	100.00	1.11
PAL (Pallet)	14300	40 08496 746415	800.00	1,200.00	1,250.00	179.59
Layer / Pallet	Master carton / Layer		Master carton / Pallet		Minimum pieces / shipment unit	
11	13		143		10	

All mentioned products and specifications are subject to change. In case of non-availability of any product or item, VARTA Consumer Batteries GmbH & Co. KGaA cannot be held responsible. Some of the products shown may not be available in all countries. The pictures might be different to the original products. Technical changes and errors reserved.

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P.O. Box 1363 | 73473 Ellwangen | Germany | Phone (+49) 7961 83 0 | Fax (+49) 7961 83 440



## Safety Data Sheet

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### 1. IDENTIFICATION

**Lithium-Manganese-Dioxide-Batteries****Sizes:** All cells ≤ 1 g Lithium content  
All batteries ≤ 2 g Lithium content**VARTA Consumer Batteries**  
GmbH & Co. KGaAAlfred Krupp Str 9, 73479 Ellwangen/Germany  
Phone +49 7961 / 83-0  
Fax +49 800 827 8274**Emergency Telephone Number:****+49 (0) 911 / 65372260**

### 2. HAZARDS IDENTIFICATION

**Note:** The batteries described in this Safety Data Sheet are sealed and are not harmful, as long as they are used in compliance with the manufacturer instructions. The content of the battery housing does not create a hazard, as long as the integrity of the battery housing is not affected by abuse (mechanical, thermal, electrical). Fire, explosion and severe, burn hazard in such abuse conditions may occur.

**Warning:** Do not charge, short circuit, puncture, deform, disassemble, heat above 85 °C, incinerate or expose contents to water. Keep batteries away from small children. International Standard IEC 60086-4 contains more detailed information on safety of lithium batteries.

GHS Classification: N/A

### 3. COMPOSITION / INFORMATION on INGREDIENTS

Substance	Approximate percent of total weight
Lithium Metal	1 - 5
Lithium-Trifluoromethane-Sulfonate	< 1.5
Lithium perchlorate	< 1.6
Manganese Dioxide	13 - 75
Dimethoxyether	1 - 10
Graphite	1 - 5
Stainless Steel	33 - 75
Teflon	1 - 5
Propylene Carbonate	2 - 9
Plastic	< 20
Dioxolane	1 - 9
Lithium Hexafluoroarsenate	1 - 4

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Mercury (Hg)	< 0.0005
Lead (Pb)	< 0.004
Cadmium (Cd)	< 0.002

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### SVHC substances according to REACH (Article 33)

Contents > 0,1%	EC No. 203-794-9	CAS No. 110-71-4	Material 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)
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## 4. FIRST AID MEASURES

### Contact to internal Battery content:

- ▶ **Skin:** Immediately flush with plenty of water for at least 15 minutes. If symptoms are present after flushing, get medical attention.
  - ▶ **Eyes:** Immediately flush with plenty of water for at least 15 minutes and get medical attention.
  - ▶ **Respiratory system:** Leave area immediately. With large quantities and irritation of the respiratory tract get medical attention.
  - ▶ **Ingestion:** Rinse mouth and surrounding area with water. Seek for immediate medical attention.
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## 5. FIRE – FIGHTING MEASURES

### A. Extinguishing Media:

- ▶ Copious amounts of water is an effective extinguishing medium for lithium batteries, as long as batteries are not yet venting or exploding.
- ▶ Lith-X (Class D extinguishing media) is effective on fires involving only a few lithium batteries.
- ▶ Dry chemical type extinguishers have only limited extinguishing potential.

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### B. Fire Fighting Procedures:

- ▶ Use a positive pressure self-contained breathing apparatus if batteries are involved in a fire.
  - ▶ Full protective clothing is necessary.
  - ▶ During water application caution is advised as burning pieces of lithium may be ejected from the fire.
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### 6. ACCIDENTAL RELEASE MEASURES

When the battery housing is damaged, small amounts of electrolyte may leak. Seal battery air tight in a plastic bag, adding some dry sand, chalk ( $\text{CaCO}_3$ ) or lime ( $\text{CaO}$ ) powder or Vermiculite. Electrolyte traces may be wiped off dryly using household paper. Rinse with water afterwards.

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### 7. HANDLING AND STORAGE

- ▶ Do not allow terminals to short-circuit.
  - ▶ Storage preferably in a cool (below 30 °C), dry area that is subject to little temperature change.
  - ▶ Do not place near heating equipment, nor expose to direct sunlight for long periods. Elevated temperatures can result in reduced battery service life.
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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory equipment: None required under normal use conditions.  
Hand protection: None required under normal use conditions. Use butyl gloves when handling leaking batteries.  
Eye protection: None required under normal use conditions. Wear safety glasses when handling leaking batteries.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Geometric solid objects.

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### 10. STABILITY AND REACTIVITY

May rupture violently when heated above 100 °C or when charged.

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### 11. TOXIOLOGICAL INFORMATION

Not applicable.

### 12. ECOLOGICAL INFORMATION

Not applicable.

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### 13. DISPOSAL CONSIDERATIONS

In accordance with appropriate national regulations.

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### 14. TRANSPORT INFORMATION

#### **Lithium-Metal Batteries (UN 3090)**

That we supply to our customers are subject to the regulations on dangerous goods.  
Transport may be facilitated by observing the following special provisions.

**Air transport:** IATA Dangerous Goods Regulations 63rd Edition Packing instruction 968  
Section IA-IB-II

UN 3090 = FORBIDDEN with PAX (Passenger- and Cargo Aircraft) ONLY: CAO

**Sea transport:** IMDG Code 40. Amendment Special provision 188/230, packing instruction 903

**Road and rail transport:** ADR/RID 2021 special provision 188/230, packing instruction 903

Additional information: Tel +49 911 65372260 for USA: Tel +18004249300

The requirements of the UN manual of Test and Criteria, Part III, sub-section 38.3 are fulfilled.

All of these batteries are packed and marked within appropriate protection for prevention of short circuits.

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### **Lithium-Metal Batteries contained in equipment (UN 3091)**

That we supply to our customers are subject to the regulations on dangerous goods.  
Transport may be facilitated by observing the following special provisions.

**Air transport:** IATA Dangerous Goods Regulations 63rd Edition Packing instruction 970  
Section II

**Sea transport:** IMDG Code 40. Amendment Special provision 188/230, packing instruction  
903

**Road and rail transport:** ADR/RID 2021 special provision 188/230, packing instruction 903

Additional information: Tel +49 911 65372260 for USA: Tel +18004249300

The requirements of the UN manual of Test and Criteria, Part III, sub-section 38.3 are  
fulfilled.

All of these batteries are packed and marked within appropriate protection for prevention of  
short circuits.

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That we supply to our customers are subject to the regulations on dangerous goods.  
Transport may be facilitated by observing the following special provisions.

**Air transport:** IATA Dangerous Goods Regulations 63rd Edition Packing instruction 969  
Section II

**Sea transport:** IMDG Code 40. Amendment Special provision 188/230, packing instruction  
903

**Road and rail transport:** ADR/RID 2021 special provision 188/230, packing instruction 903

Additional information: Tel +49 911 65372260 for USA: Tel +18004249300

The requirements of the UN manual of Test and Criteria, Part III, sub-section 38.3 are  
fulfilled.

All of these batteries are packed and marked within appropriate protection for prevention of  
short circuits.

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## **15. REGULATORY INFORMATION**

Not applicable.

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## **16. OTHER INFORMATION**

For lithium batteries in general, Safety standard IEC 60086-4 applies.  
It contains detailed recommendations for manufactures of equipment and users.

# Lithium Cell / Battery Test Summary

In Accordance with UN Manual of Tests and Criteria (T&C),  
Subsection 38.3



## Cell / Battery

Name CR2016  
Type Lithium metal cell  
Physical description Primary lithium metal cell

## Manufacturer

Name VARTA Consumer Batteries GmbH & Co. KGaA  
Address Alfred-Krupp-Str 9  
73479 Ellwangen, Germany  
Phone +49 (0) 7961 830  
Email info@varta-household.com  
Website https://www.varta-consumer.com

## Test laboratory

Name Guangzhou MCM Certification and Testing Co., Ltd.  
Address 1F No.13, Zhong San Section, ShiGuang Road, Panyu District, Guangzhou City,  
Guangdong Province, China  
Phone +86 (0) 20 34 777 662  
Email markmiao@mcmtek.com  
Website http://www.mcmtek.com

Model number	Mass [g]	Li metal content [g]	Edition of the Manual T&C used	Test report number	Test report date
6016	1,80	0,024	ST/SG/AC.10/11/Rev.6	LJK20180901U09	28.09.2018

Test	Result	Test	Result
T1 – Altitude simulation	Passed	T5 – External Short Circuit	Passed
T2 – Thermal Test	Passed	T6 – Impact / Crush	Passed
T3 – Vibration	Passed	T7 – Overcharge	N/A
T4 – Shock	Passed	T8 – Forced Discharge	Passed



  
Signature  
(Uwe Knödler, Manager Quality & PDSG)