Article Data Sheet

### 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

Voltage 3.00 Consumer Unit 2

Packaging Information Single Blister

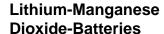
| Logistical Data      | Content<br>(SU) | GTIN / EAN      | Facing<br>(mm) | Depth<br>(mm) | Height<br>(mm) | Weight<br>(kg) |
|----------------------|-----------------|-----------------|----------------|---------------|----------------|----------------|
| VBE (Selling unit)   | 1               | 40 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         |
|                      | 1               |                 | 1              | •             | 1              |                |

| Layer / Pallet | Master carton / Layer |     | Minimum pieces /<br>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 responsed.









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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** Alfred Krupp Str 9, 73479 Ellwangen/Germany GmbH &Co. KGaA

+49 7961 / 83-0 Phone Fax +49 800 827 8274

**Emergency Telephone Number:** +49 (0) 911 / 65372260

#### 2. HAZARDS IDENTIFICATION

The batteries described in this Safety Data Sheet are sealed and are not harmful, as Note:

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 (mechanicel, 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

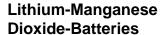
information on safety of lithium batteries.

GHS Classification: N/A

#### 3. **COMPOSITION / INFORMATION on INGREDIENTS**

| Approximate percent of total weight |  |  |
|-------------------------------------|--|--|
|                                     |  |  |
| 1 - 5                               |  |  |
| < 1.5                               |  |  |
| < 1.6                               |  |  |
| 13 - 75                             |  |  |
| 1 - 10                              |  |  |
| 1 - 5                               |  |  |
| 33 - 75                             |  |  |
| 1 - 5                               |  |  |
| 2 - 9                               |  |  |
| < 20                                |  |  |
| 1 - 9                               |  |  |
| 1 - 4                               |  |  |
|                                     |  |  |

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 Mercury (Hg)
 < 0.0005</td>

 Lead (Pb)
 < 0.004</td>

 Cadmium (Cd)
 < 0.002</td>

SVHC substances according to REACH (Article 33)

Contents EC No. CAS No. Material

> 0,1% 203-794-9 110-71-4 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)

#### 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 Leave area immediately. With large quantities and irritation

of the respiratory tract get medical attention.

▶ Ingestion: Rinse mouth and sorrounding area with water.

Seek for immediate medical attention.

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#### 5. FIRE – FIGHTING MEASURES

system:

### 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 | <b>Fighting</b> | <b>Procedures:</b> |
|----|------|-----------------|--------------------|
|----|------|-----------------|--------------------|

- 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 (CaCO<sub>3</sub>) or lime (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.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory eqipment: 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.   |  |  |  |  |  |  |
|        |   |  |  |  |  |  |  |
| 11.    | TOXIOLOGICAL INFORMATION  |  |  |  |  |  |  |
| Not ap | Not applicable.   |  |  |  |  |  |  |
|        |   |  |  |  |  |  |  |
| 12.    | ECOLOGICAL INFORMATION  |  |  |  |  |  |  |
|        | Not applicable.   |  |  |  |  |  |  |
|        |   |  |  |  |  |  |  |
| 10     |   |  |  |  |  |  |  |
| 13.    | DISPOSAL CONSIDERATIONS   |  |  |  |  |  |  |
|        | In accordance with appropriate national regulations.  |  |  |  |  |  |  |
|        |   |  |  |  |  |  |  |
| 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.    |  |  |  |  |  |  |
|        | <b>Air transport:</b> 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

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

Lithium-Manganese-Dioxide-Batteries

fulfilled.

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.

#### Lithium-Metal Batteries contained with 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 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.

| 15. | REGULATORY INFORMATION |
|-----|------------------------|
|     | Not applicable.        |
|     |                        |

#### 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<br>[g] | Li metal<br>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           | LJKJ20180901U<br>09 | 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)

Department: Product Testing / Ni Page 1 of 1
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