

Deckblatt zum Sicherheitsdatenblatt

Produktidentifikation:

Sicherheitsdatenblatt 2.001.045

Handelsname:

VARTA Primäre Lithium-Knopfzelle

Verwendungszweck:

Typ	IEC Bezeichnung	Lithiumgehalt	Spannung
CR1025	CR1025	0.009 g	3.0 V
CR1216	CR1216	0.008 g	3.0 V
CR1220	CR1220	0.01 g	3.0 V
CR1225	CR1225	0.015 g	3.0 V
CR1616	CR1616	0.02 g	3.0 V
CR1620	CR1620	0.02 g	3.0 V
CR1632	CR1632	0.04 g	3.0 V
CR2016	CR2016	0.03 g	3.0 V
CR2025	CR2025	0.05 g	3.0 V
CR2032	CR2032	0.07 g	3.0 V
CR2320	CR2320	0.043 g	3.0 V
CR2354	CR2354	0.15 g	3.0 V
CR2430	CR2430	0.09 g	3.0 V
CR2450	CR2450	0.17 g	3.0 V
CR2477	CR2477	0.29 g	3.0 V
CR3032	CR3032	0.175 g	3.0 V
CR1/3N	CR11108	0.06 g	3.0 V
V28pxl	2CR11108	0.12 g	6.0 V

Lieferant, der das Sicherheitsdatenblatt übermittelt:

Varta Consumer Schweiz GmbH
Brandbachstrasse 10
8305 Dietlikon

Nationale Notfallnummer:

145 (24h erreichbar, Tox Info Suisse, Zürich; für Anrufe aus der Schweiz, Auskünfte auf Deutsch, Französisch und Italienisch)

Informationen für die Verwender betreffend:

Abschnitt 7

Handhabung und Lagerung. Leitfaden für den sicheren Umgang: Beachten Sie stets die Warnhinweise auf den Batterien und in den Bedienungsanleitungen der Geräte. Verwenden Sie nur die empfohlenen Batterietypen. Bewahren Sie Batterien außerhalb der Reichweite von Kindern auf. Bewahren Sie kleine Zellen und Batterien, die verschluckt werden könnten, außerhalb der Reichweite von Kindern auf. Bei Geräten, die von Kindern benutzt werden, sollte das Batteriefach vor unbefugtem Zugriff geschützt sein. Unverpackte Batterien dürfen nicht lose herumliegen. Ersetzen Sie beim Batteriewechsel stets alle Batterien durch neue Batterien desselben Typs und derselben Marke. Verschlucken Sie keine Batterien. Das Verschlucken kann zu Verbrennungen, Perforation von Weichgewebe und zum Tod führen. Schwere Verbrennungen können innerhalb von 2 Stunden nach der Einnahme auftreten. Suchen Sie bei Verschlucken einer Zelle oder Batterie unverzüglich ärztliche Hilfe auf. Werfen Sie Batterien nicht ins Wasser. Werfen Sie Batterien nicht ins Feuer. Vermeiden Sie Tiefentladung. Schließen Sie Batterien nicht kurz. Laden Sie Primärbatterien nicht wieder auf. Öffnen oder zerlegen Sie Batterien nicht. Lieferung an private Endverbraucher: Falls die Produkte an private Endverbraucher geliefert werden, die mit Geräten verpackt oder in Geräten enthalten sind, wird dringend empfohlen, die Anforderungen von UL an das Produkt und die Bedienungsanleitung zu befolgen. Das Produkt muss mit einem grafischen Symbol gekennzeichnet sein, das den Benutzer darauf hinweist, die Bedienungsanleitung zu konsultieren. Die Gebrauchsanweisung selbst muss Folgendes enthalten: eine Warnhinweis mit Text, der den Benutzer auf die potenzielle Gefahr chemischer Verbrennungen durch das Verschlucken von Knopfzellen hinweist, einen Hinweis auf das Vorhandensein einer Knopfzelle, mögliche Auswirkungen des Verschluckens einer Batterie, eine Anweisung, Batterien von Kindern fernzuhalten, den Rat, sofort ärztliche Hilfe in Anspruch zu nehmen, wenn der Verdacht besteht, dass Batterien verschluckt oder in einen Körperteil eingeführt wurden. Weitere Hinweise für Eltern: <http://buttonbatterysafety.com> Weitere Hinweise für medizinisches Fachpersonal: <https://www.poison.org/battery/guideline> Lagerung: Lagerung vorzugsweise bei Raumtemperatur (ca. 20 °C). Vermeiden Sie starke Temperaturschwankungen. Nicht in der Nähe von Heizgeräten lagern. Vermeiden Sie direkte Sonneneinstrahlung. Bei höheren Temperaturen kann die elektrische Leistung beeinträchtigt werden. Die Lagerung von unverpackten Batterien kann zu Kurzschlüssen und Wärmeentwicklung führen. Lagerkategorie gemäß TRGS 510: Es wird empfohlen, die „Technische Regel für Gefahrstoffe TRGS 510 – Lagerung von Gefahrstoffen in nicht ortsfesten Behältern“ zu beachten und Lithium-Primärzellen und -Batterien gemäß Lagerkategorie 11 („brennbare Feststoffe“) zu behandeln. Lagerung großer Mengen: Befolgen Sie die Empfehlungen des Gesamtverbands der Deutschen Versicherungswirtschaft e.V. (GDV) zu Lithium-Batterien: VdS 3103. Bei der Lagerung großer Mengen (genutztes Lagervolumen > 7 m³ und/oder mehr als 6 Paletten) sind Batterien in feuerbeständigen oder abgetrennten Räumen oder Bereichen (z. B. Lagerhalle oder Gefahrgutcontainer) zu lagern. Eine gemischte Lagerung mit anderen Produkten ist nicht zulässig. Der Lagerbereich ist durch eine automatische Brandmeldeanlage zu überwachen, die mit einer ständig besetzten Stelle verbunden ist. Eine Feuerlöschanlage muss die in Abschnitt 5 genannten Löschmittel berücksichtigen.

Abschnitt 8

Maßnahmen zur Expositionsbegrenzung/persönlicher Schutz: Unter normalen Bedingungen (Entladung) kommt es zu keiner Freisetzung von Inhaltsstoffen. Vermeiden Sie eine längere Tiefentladung.

Abschnitt 13

Hinweise zur Entsorgung. Um Kurzschlüsse und Erwärmung zu vermeiden, dürfen gebrauchte VARTA-Lithium-Knopfzellen niemals lose gelagert oder transportiert werden. Geeignete Maßnahmen gegen Kurzschlüsse sind: Lagerung der Batterien in der Originalverpackung. Abdecken der Pole. Einbetten in trockenen Sand.

Europäische Union In der Europäischen Union sind Herstellung, Handhabung und Entsorgung von Batterien auf der Grundlage der

Verordnung (EU) 2023/1542 des Europäischen Parlaments und des Rates vom 12. Juli 2023 über Batterien und Akkumulatoren sowie Altbatterien und Altakkumulatoren geregelt. Kunden finden detaillierte Informationen zur Entsorgung in ihren jeweiligen Ländern auf der Website der European Portable Batteries Association (www.epbaeurope.net). Importeure und Nutzer außerhalb der EU sollten die lokalen Gesetze und Vorschriften beachten. USA Primäre Lithium-Knopfzellen von VARTA werden von der Bundesregierung als nicht gefährlicher Abfall eingestuft und können sicher im normalen kommunalen Abfallstrom entsorgt werden. Diese Batterien enthalten jedoch recycelbare Materialien und werden von Call2Recycle, Inc. zum Recycling angenommen. Weitere Informationen finden Sie auf deren Website unter www.call2recycle.org.

Abschnitt 15

Rechtliche Hinweise. Kennzeichnungshinweise Europäische Union: VARTA-Lithium-Knopfzellen entsprechen den Anforderungen der EU-Batterieverordnung (EU) 2023/1542 und sind daher mit dem CE-Zeichen gekennzeichnet. Aufgrund der Größe der Batterie ist es nicht möglich, die CE-Kennzeichnung (Mindestgröße 5 mm) auf die Batterie selbst aufzudrucken; daher wird sie auf der Verpackung und in den Begleitdokumenten der Batterie angebracht. Gemäß der EU-Batterieverordnung müssen Batterien mit dem Symbol der durchgestrichenen Mülltonne gekennzeichnet werden.

Kennzeichnungshinweis (USA) Die Gehäuse oder Kontakte von VARTA-Primär-Lithium-Knopfzellen können aus vernickeltem Stahl bestehen. Für die Exposition gegenüber Nickel ist in der kalifornischen Proposition 65, offiziell bekannt als „Safe Drinking Water and Toxic Enforcement Act of 1986“, kein Safe-Harbor-Grenzwert festgelegt. Daher muss Kunden im Bundesstaat Kalifornien folgender Warnhinweis gegeben werden: „WARNUNG: Dieses Produkt kann Sie Chemikalien aussetzen, darunter Nickel, das im Bundesstaat Kalifornien als krebserregend bekannt ist. Weitere Informationen finden Sie unter www.P65Warnings.ca.gov.“ Der Warnhinweis muss zusammen mit einem dreieckigen gelben Warnsymbol angegeben werden. Für den Bundesstaat Kalifornien müssen diese Batterien als „perchlorathaltig“ gekennzeichnet werden. Internationale Sicherheitsnormen Zur UL-Zulassung der Basiszellen gemäß UL 1642 siehe: BBCV2.MH28845 Wassergefährdungsklasse Die Vorschriften des deutschen Bundesgesetzes über die Wasserwirtschaft (WHG) finden keine Anwendung, da VARTA-Primär-Lithium-Knopfzellen Erzeugnisse und keine Stoffe sind; somit besteht keine Gefahr der Wasserverschmutzung, es sei denn, die Batterien werden beschädigt oder zerlegt. Bei Brandbekämpfungsmaßnahmen ist zu beachten, dass die in Tabelle 3 aufgeführten Stoffe für Wassergefährdungsklassen relevant sein können.

Deckblatt erstellt: 07.04.2026



Safety Data Sheet MSDS 2.001.045 Primary Lithium Button Cell

1 Identification of the product and of the company

Product details

Trade name: VARTA Special Batteries - Lithium Coin
Electrochemical system: Lithium metal | organic electrolyte | manganese dioxide
Anode (negative): Lithium metal
Cathode (positive): Manganese dioxide

This MSDS applies to the following cell and battery types and batteries assembled from these types.

Type	IEC designation	Lithium content	Nominal voltage
CR1025	CR1025	0.009 g	3.0 V
CR1216	CR1216	0.008 g	3.0 V
CR1220	CR1220	0.01 g	3.0 V
CR1225	CR1225	0.015 g	3.0 V
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CR1632	CR1632	0.04 g	3.0 V
CR2016	CR2016	0.03 g	3.0 V
CR2025	CR2025	0.05 g	3.0 V
CR2032	CR2032	0.07 g	3.0 V
CR2320	CR2320	0.043 g	3.0 V
CR2354	CR2354	0.15 g	3.0 V
CR2430	CR2430	0.09 g	3.0 V
CR2450	CR2450	0.17 g	3.0 V
CR2477	CR2477	0.29 g	3.0 V
CR3032	CR3032	0.175 g	3.0 V
CR1/3N	CR11108	0.06 g	3.0 V
V28pxl	2CR11108	0.12 g	6.0 V

Supplier details

Address: VARTA Consumer Batteries GmbH & Co. KGaA
Alfred-Krupp-Str. 9
73479 Ellwangen
Germany

Emergency Phone Number: +49 7961 921 110 (VAC)



General remark

This information is provided as a service to our customers. The details presented are in accordance with our present knowledge and experiences. They are no contractual assurances of product attributes.

Legal remark (EU)

These batteries are no "substances" or "mixtures" according to Regulation (EC) No 1907/2006 EC. Instead they have to be regarded as "articles", no substances are intended to be released during handling. Therefore there is no obligation to supply a safety data sheet according to Regulation (EC) No 1907/2006, Article 31.

The headings used in this safety data sheet are in line with Annex II of Regulation (EC) No 1907/2006 as amended by Regulation (EU) 2020/878.

Legal remark (USA)

Safety Data Sheets are a sub-requirement of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR Subpart 1910.1200. This Hazard Communication Standard does not apply to various subcategories including anything defined by OSHA as an "article". According to OSHA, Article means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.

Because all of our batteries are defined as "articles", they are exempted from the requirements of the Hazard Communication Standard.

2 Hazards identification

The battery is sealed hermetically. Thus, the ingredients have no hazard potential, except the battery is violated or dismantled.

If in case of mistreatment the ingredients are released, a spontaneously flammable gas mixture may be released under certain circumstances (measures according to sections 4 to 6).

Attention: If batteries are treated wrong the danger of burns or bursts occurs. Batteries must not be heated above 85 °C or incinerated. The battery contents must not get in contact with water. If the negative electrode gets in contact with water or humidity hydrogen gas is formed, which may inflame spontaneously.



3 Composition/information on ingredients

Ingredients

Content	CAS no.	EC no.	Material	Hazard Categories	Hazard Statements
33 – 74 %	12597-68-1	603-108-1	Stainless steel		
13 – 40 %	1313-13-9	215-202-6	Manganese dioxide	Acute Tox. 4	H302, H332
3 – 10 %	9003-07-0	618-352-4	Polypropylene		
< 10 %	108-32-7	203-572-1	Propylene carbonate	Eye Irrit. 2	H319
< 10 %	110-71-4	203-794-9	1,2-Dimethoxy ethane	Flam. Liq. 2, Repr. 1B, Acute Tox. 4	H225, H332, H360-FD
< 5 %	646-06-0	211-463-5	1,3-Dioxolane	Flam. Liq. 2	H225
< 5 %	7791-03-9	232-237-2	Lithium perchlorate	Ox. Sol. 2, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3	H272, H315, H319, H335
1 – 3 %	7439-93-2	231-102-5	Lithium	Water-react. 1, Skin Corr. 1B	H260, H314
< 2.5 %	9002-84-0	618-337-2	Polytetrafluoroethylene		

For full text of hazard statements see section 16.

Substances relevant for Battery Regulation 2023/154

Content	CAS no.	EC no.	Material
< 0.0100 %	7439-92-1	231-100-4	Lead
< 0.0020 %	7440-43-9	231-152-8	Cadmium
< 0.0005 %	7439-97-6	231-106-7	Mercury (none intentionally introduced, see section 12)

SVHC substances according to REACH (Article 33)

Content	CAS no.	EC no.	Material
> 0.1 %	110-71-4	203-794-9	1,2-Dimethoxy ethane

For information to allow safe use: see section 7.



4 First-aid measures

After inhalation:	Fresh air. Seek for medical assistance.
After skin contact:	Remove solid particles immediately. Flush affected areas with plenty of water (at least 15 min). Remove contaminated cloth immediately. Seek for medical assistance.
After eye contact:	Flush the eye gently with plenty of water (at least 15 min). Seek for medical assistance.
After ingestion of battery components:	Drink plenty of water. Avoid vomiting. Seek for medical assistance. No trials for neutralization.
After ingestion of battery:	In the event of battery ingestion, seek immediate medical attention at a hospital emergency room. Do not let the person who ingested the battery eat or drink until an X-ray can determine if a battery is present. If you still have the battery packaging or the device containing the battery take this with you to help the physician identify the battery type and chemistry. Warning: Swallowing may lead to burns, perforation of soft tissue, and death. Severe burns can occur within 2 h of ingestion. In case of ingestion of a cell or battery, seek medical assistance promptly.
Further advice for health professionals:	https://www.poison.org/battery/guideline

5 Fire-fighting measures

Suitable extinguishing media:	Metal fire extinction powder, rock salt or dry sand shall be used. In case only water is available, it can be used in large amounts.
Extinguishing media with limited suitability:	Carbon dioxide (CO ₂) is not suitable. Water in small quantities may have adverse effects.
Special protection equipment during fire-fighting:	Firefighting clothing and self-contained breathing apparatus.
Special hazard:	Cells may explode and release metal parts. At contact of electrolyte with water traces of hydrofluoric acid may be formed. In this case avoid contact and take care for good ventilation. At contact of charged anode material with water extremely flammable hydrogen gas is generated.
Attention:	Do not let used extinguishing media penetrate into surface water or ground water. If necessary, thicken water or foam with suitable solids. Dispose of properly.

6 Accidental release measures

Person related measures:	Wear personal protective equipment adapted to the situation (protection gloves, face protection, breathing protection).
Environment protection measures:	In the event of battery rupture, prevent skin contact and collect all released material in a plastic lined container. Bind released ingredients with powder (rock salt, sand). Dispose of according to the local law and rules. Avoid leached substances to penetrate into the earth, canalization or water.
Treatment for cleaning:	If battery casing is dismantled, small amounts of electrolyte may leak. Package the battery tightly including ingredients together with lime, sand or rock salt. Then clean with water.



7 Handling and storage

Guideline for safe handling:

- Always follow the warning information on the batteries and in the manuals of devices. Only use the recommended battery types.
- Keep batteries away from children. Keep small cells and batteries which are considered swallowable out of the reach of children.
- For devices to be used by children, the battery casing should be protected against unauthorized access.
- Unpacked batteries shall not lie about in bulk.
- In case of battery change always replace all batteries by new ones of identical type and brand.
- Do not swallow batteries. Swallowing may lead to burns, perforation of soft tissue, and death. Severe burns can occur within 2 h of ingestion. In case of ingestion of a cell or battery, seek medical assistance promptly.
- Do not throw batteries into water.
- Do not throw batteries into fire.
- Avoid deep discharge.
- Do not short-circuit batteries.
- Do not recharge primary batteries.
- Do not open or disassemble batteries.

Supply to private end users:

In case the products are supplied to private end users packed with equipment or contained in equipment it is strongly recommended to follow UL product and instruction manual requirements. The product is required to be marked with a graphical symbol that alerts the user to refer to the instruction manual.

The instruction manual itself is required to contain

- a warning marking with text to alert the user of the potential chemical burn hazard associated with coin/button battery ingestion,
- an instruction as to the presence of a coin/button cell battery,
- possible effects of battery ingestion,
- an instruction to keep batteries away from children,
- an advice to seek immediate medical attention if it suspected that batteries have either been swallowed or placed inside any part of the body.

Further advice for parents:

<http://buttonbatterysafety.com>

Further advice for health professionals:

<https://www.poison.org/battery/guideline>

Storage:

Storage preferably at room temperature (approx. 20 °C). Avoid large temperature changes. Do not store close to heating devices. Avoid direct sunlight. At higher temperature the electrical performance may be reduced.

Storage of unpacked batteries can cause short circuit and heat generation.

Storage category according to TRGS 510:

It is recommended to consider the "Technical Rule for Hazardous Substances TRGS 510 - Storage of hazardous substances in nonstationary containers" and to handle lithium primary cells and batteries according to storage category 11 ("combustible solids").

Storage of large amounts:

Follow the recommendations of the German Insurance Association (GDV - "Gesamtverband der Deutschen Versicherungswirtschaft e.V.") concerning lithium batteries: VdS 3103.

In case of storage of large amounts (used storage volume > 7 m³ and/or more than 6 pallets) batteries shall be stored in fire-resistant or separated rooms or areas (e.g. warehouse or container for hazardous materials). Mixed storage with other products is not allowed. The storage area shall be monitored by an automatic fire detection system, connected to a permanently manned place. A fire-extinguishing system shall reflect the extinguishing agents mentioned in section 5.

8 Exposure controls/personal protection

Under normal conditions (discharge) release of ingredients does not occur. Avoid prolonged deep discharge.



9 Physical and chemical properties

Not applicable if closed.

10 Stability and reactivity

Dangerous reactions: When heated above 100 °C the risk of rupture occurs.

11 Toxicological information

Under normal conditions (during charge and discharge) release of ingredients does not occur. In case of accidental release see information in sections 2 to 4 and 6.

Swallowing of a battery can be harmful. Call the local Poison Control Centre for advice and follow-up. See section 4.

12 Ecological information

VARTA primary lithium button cell do not contain heavy metals as defined by the European Battery regulation 2023/1542; they comply with the chemical composition requirements of this regulation.

Mercury has not been "intentionally introduced (as distinguished from mercury that may be incidentally present in other materials)" in the sense of the U.S.A. "Mercury-Containing and Rechargeable Battery Management Act" (May 13 1996).

13 Disposal considerations

In order to avoid short circuit and heating, used VARTA primary lithium button cell should never be stored or transported in bulk. Proper measures against short circuit are:

- Storage of batteries in original packaging
- Coverage of the terminals
- Embedding in dry sand

European Union

In the European Union, manufacturing, handling and disposal of batteries is regulated on the basis of the Regulation (EU) 2023/1542 of the European Parliament and of the Council of 12 July 2023 on batteries and accumulators and waste batteries and accumulators. Customers find detailed information on disposal in their specific countries using the web site of the European Portable Batteries Association (www.epbaeurope.net).

Importers and users outside EU should consider the local law and rules.

USA

VARTA primary lithium button cell are classified by the federal government as non-hazardous waste and are safe for disposal in the normal municipal waste stream. These batteries, however, do contain recyclable materials and are accepted for recycling by Call2Recycle, Inc. Please go to their website at www.call2recycle.org for additional information.



14 Transport information

General considerations

VARTA primary lithium button cell are considered to be UN 3090 Lithium Metal Batteries, hazard class 9, and are tested according to subsection 38.3 of the "UN Manual of Tests and Criteria" for compliance with the requirements of special provisions ADR 188, IMDG 188, as well as the requirements of DOT / 49 CFR § 173.185, and the requirements of IATA DGR packing instruction 968. Test results as well as other relevant information required for transportation are given in dedicated "Supplier's Test Summaries".

Transportations of cells or batteries packed with equipment or contained in equipment have to follow the appropriate regulations for UN 3091.

During the transportation of large amounts of batteries by ship, trailer or railway, do not store them in places of high temperature and do not allow them to be exposed to condensation. During the transportation do not allow the packaging to be damaged, as a damage of the packaging may cause fire. In the event packaging is damaged, special procedures must be used including inspection and repackaging if necessary and handle with care.

Compilations of transport requirements for Lithium batteries can be found in:

<https://www.lithium-batterie-service.de/en/>

<https://www.iata.org/en/programs/cargo/dgr/lithium-batteries/>

Each cell or battery is manufactured under a quality management program according to IATA DGR clause 3.9.2.6, ADR clause 2.2.9.1.7 e), and IMDG code clause 2.9.4.5.

IEC 60086-1

Code of practice for packaging and shipment of primary batteries given in IEC 60086-1:

"The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture."

"Shock and vibration shall be kept to a minimum. For instance, boxes should not be thrown off trucks, slammed into position or piled so high as to overload battery containers below. Protection from inclement weather should be provided."

15 Regulatory information

Marking consideration

European Union:

VARTA Lithium Button Cells conform to the requirements of the EU Battery Regulation (EU) 2023/1542 and are thus marked with the CE symbol. Due to the size of the battery it is not possible to print the CE marking (minimum size of 5 mm) on the battery itself, therefore it is affixed to the packaging and to the documents accompanying the battery.

According to the EU Battery Regulation batteries have to be marked with the crossed bin.

Marking consideration (USA)

The casings or terminals of VARTA primary lithium button cell may be made out of Nickel plated steel. For the exposition to Nickel no safe-harbour level is given in California Proposition 65, officially known as the Safe Drinking Water and Toxic Enforcement Act of 1986. Therefore the following warning must be given to customers in the State of California: "WARNING: This product can expose you to chemicals including nickel, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov." The warning must be given together with a triangular yellow warning symbol.

For the state of California these batteries have to be marked as "containing perchlorate".



International safety standards

For UL recognition of the basis cells according to UL 1642 see: [BBCV2.MH28845](#)

Water hazard class

The regulations of the German Federal Water Management Act (WHG) are not applicable as VARTA primary lithium button cell are articles and not substances, thus there is no risk of water pollution, except the batteries are violated or dismantled. In case of fire-fighting measures, please be aware that the substances listed in Table 3 can be relevant for water hazard classes.

16 Other information

Full text of Hazard Statements referred to under section 3:

Code	Phrase
H225	Highly flammable liquid and vapour.
H228	Flammable solid.
H250	Catches fire spontaneously if exposed to air.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer
H350i	May cause cancer by inhalation.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H360D	May damage the unborn child.

continued on next page



Code	Phrase (continued)
H360FD	May damage fertility. May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Covered regulations: Latest covered modifications of transport regulations:

- Air: IATA DGR 2026 (67th edition)
- Road: ADR 2026
- Sea: IMDG Code 2024 (inc. Amdt. 42-24)
- Rail: RID 2026

Latest covered modification of the Battery Regulation 2023/1542:

- Directive (EU) 2023/1542

Issued by: VARTA Consumer Battery GmbH
Product Compliance

Contact: <https://www.varta-ag.com/en/about-varta/contact>
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