

Material Safety Data Sheet

Edition: 2014-03-25 / Version: 12

1. IDENTIFICATION

Alkaline-Batteries Sizes all

VARTA Consumer Batteries Alfred-Krupp-Str. 9 73479 Ellwangen/Germany

GmbH & Co. KGaA Phone ++49 (0) 7961 / 83-0 Fax ++49 (0) 800 / 8278274

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

2. COMPOSITION / INFORMATION on INGREDIENTS

Substance	Approximate percent of total weight		
Manganese Dioxide (MnO ₂) Zinc (Zn) Graphite (C) Potassium Hydroxide (KOH)	24 - 43 9 - 18 2 - 5 3 - 8		
Steel Zinc Oxide (ZnO) Water, paper, plastic (Polyamide, Teflon), other	14 - 26 < 0.5 balance		
Mercury (Hg) Lead (Pb) Cadmium (Cd)	0.00003 0.0001 - 0.003 0.00002		

3. 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

(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

 $85\,^{\circ}\text{C}$, incinerate or expose contents to water. Keep batteries away from small children. International Standard IEC 60086-5 contains more detailed

information on safety of alkaline batteries.

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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 sorrounding area with water.

Seek for immediate medical attention.

5. FIRE - FIGHTING MEASURES

A. Extinguishing Media:

- Copious amounts of water is an effective extinguishing medium for alkaline batteries.
- Dry chemical type extinguishers may also be used.

B. Fire Fighting Procedures:

 Use a positive pressure self-contained breathing apparatus if batteries are involved in a 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 (CaCO₃) 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.	HANDL	ING		STOR	AGF
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- 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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3.	EXPOSURE CONTROLS / PERSONAL PROTECTION				
	Respiratory eqipment: Hand protection: Eye protection:	None required under normal use conditions. None required under normal use conditions. Use butyl gloves when handling leaking batteries. None required under normal use conditions. Wear safety glasses when handling leaking batteries.			
).	PHYSICAL AND CHEMICAL PROPERTIES				
	Geometric solid objects	s.			
0.	STABILITY AND REAC	CTIVITY			
	May rupture violently when heated above 100 °C or when charged.				
1.	TOXIOLOGICAL INFO	RMATION			
	Not applicable.				

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12. **ECOLOGICAL INFORMATION** Not applicable. **DISPOSAL CONSIDERATIONS** 13. In accordance with appropriate national regulations (2006/66/EC). 14. TRANSPORT INFORMATION Alkaline batteries, which we supply to our customers are not subject to dangerous goods transport regulations due to following regulations: Air transport: IATA Dangerous Goods Regulations 55th Edition special provision A123 The shipping documents contain "Not restricted, as per Special Provision A123" in the airwaybill (8.2.6 IATA-DGR) Sea transport: IMDG Code 36. Amendment Road and rail transport: ADR/RID 2013 All of these batteries are carefully packed and provide appropriate protection for prevention of short circuits. 15. **REGULATORY INFORMATION** Not applicable. 16. **OTHER INFORMATION** For alkaline batteries in general, Safety standard IEC 60086-5 applies. It contains detailed recommendations for manufactures of equipment and users.

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