

Alkaline-Batteries

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Safety data sheet according to 91/155 EWG / ISO 11014-1

Edition: August 14, 2003 Version: 2003/1/V/Alkaline

1. IDENTIFICATION

Alkaline-Batteries

Sizes all

VARTA Gerätebatterie GmbH

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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) Steel Zinc Oxide (ZnO) Water, paper, plastic, other	24 - 43 10 - 18 2 - 5 4 - 8 14 - 26 < 0.5 balance
Mercury (Hg) Lead (Pb) Cadmium (Cd)	< 0.0001 < 0.009 < 0.0005



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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 °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.

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.

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7. HANDLING AND STORAGE

Do not allow terminals to short-circuit.

EXPOSURE CONTROLS / PERSONAL PROTECTION

- 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.

	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.
9.	PHYSICAL AND CHEMICAL PROPERTIES	
	Geometric solid objects	S.
10.	STABILITY AND REA	CTIVITY
		hen heated above 100 °C or when charged.
11.	TOXIOLOGICAL INFO	RMATION
	Not applicable.	



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12.	ECOLOGICAL INFORMATION
	Not applicable.
13.	DISPOSAL CONSIDERATIONS
	► Alkaline batteries do not contain hazardous materials according to EC directives 91/157/EEC and 93/86/EEC.
	► In accordance with appropriate national regulations (EC 91/157 item 4).
14.	TRANSPORT INFORMATION
	Alkaline batteries shipped by VARTA Gerätebatterie GmbH are not regarded as hazardous goods per IATA* regulations.
	* International Air Transport Association.
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.