

Safety Data Sheet

Edition: 2016-04-22 / Version 13

1. IDENTIFICATION

Nickel Metal Hydride Batteries all sizes

VARTA Consumer Batteries Alfred Krupp Str. 9 Ellwangen/Germany

GmbH & Co. KGaA Phone ++49 (0) 7961 / 83-0 Fax ++49 (0) 800-827-8274

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

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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

(mechanicel, thermal, electrical). Fire, explosion and severe, burn hazard in

such abuse conditions may occur.

Warning: Do not short circuit, puncture, deform, disassemble, heat above 85 °C or

incinerate. Keep batteries away from small children. International Standard IEC 62133 contains more detailed information on safety of nickel metal

hydride batteries.

GHS Classification: N/A

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3. COMPOSITION / INFORMATION on INGREDIENTS

Substance	Approximate percent of total weight
Nickel and compounds	17 – 40
Steel	15 – 57
Potassium Hydroxide (KOH)	3 – 15
Sodium Hydroxide (NaOH)	< 4
Lithium Hydroxide (LiOH)	< 4
Cobalt and compounds	2 – 8
Zinc and compounds	< 3
Manganese (Mn)	< 2
Aluminium (Al)	< 2
Hydrogen storage mischmetal alloy	4 – 20
Water, paper, plastic, other	balance



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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 or foam is an effective extinguishing medium for nickel metal hydride 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.

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. HANI	DLING AND	O STORAGE
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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.

8. EXPOSURE CONTROLS / PERSONAL PROTECT

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Geometric solid objects.

10. STABILITY AND REACTIVITY

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

11. TOXIOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

Not applicable.

Not applicable.



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13.	DISPOSAL	CONSIDERATIONS
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	Nickel metal hydride batteries do not contain hazardous materials according to EC directives 2006/66/EC.
	► In accordance with appropriate national regulations (2006/66/EC).
14.	TRANSPORT INFORMATION
	Nickel-Metal-Hydride 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 57th Edition special provision A199 The shipping documents contain "Not restricted, as per Special Provision A199"in the air waybill (8.2.6 IATA-DGR) Sea transport (UN 3496): IMDG Code 37. Amendment special provision 117 / 963 Road and rail transport: ADR/RID 2015
	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 nickel metal hydride batteries in general, Safety standard IEC 62133 applies. It contains detailed recommendations for manufactures of equipment and users.