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SAFETY DATA SHEET

The sheets are supplied as a service to you. For related information, visit: http://www.rayovac.com/Consumer-Services/Technical-OEM/Safety-Data-Sheets.aspx

1. IDENTIFICATION

PRODUCT NAME: **Nickel Metal Hydride Batteries**

SIZES: All

EMERGENCY TELEPHONE NUMBER: 800-424-9300 (24 hr, Chemtrec)

2. HAZARD IDENTIFICATION

We would like to inform our customers that these batteries are exempt articles and are not subject to the 29 CFR 1910.1200 OSHA requirements, Canadian WHMIS requirements or GHS requirements.

Emergency Overview

OSHA Hazards-not applicable
Target Organs-not applicable
GHS Classification-not applicable
GHS Label Elements, including precautionary Statement-not applicable
Pictogram-not applicable
Signal words-not applicable
Hazard statements-not applicable
Precautionary statements-not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS #	%	TWA/TLV
Nickel and compounds	7440-02-0	30-40	1.0 mg/m^3 (Soluble Compounds, TWA)
Steel	--	15 - 25	--
Potassium Hydroxide	1310-58-3	10-15	Not Listed (for solution)
Cobalt and compounds	7440-48-4	4-8	0.1 mg/m^3 (TWA)
Manganese	7439-96-5	<2	C5.0 mg/m^3 (TWA)
Aluminum	7429-90-5	<1	15 mg/m^3 (Total Dust,TWA)
Lanthanides, Zinc	7440-66-6(Zn)	5 - 20	5 mg/m^3 (ZnO as Fume)
Water, paper, plastic, other	--	Balance	--

Source: OSHA 29 CFR 1910.1000 Table Z-1, 2 or 3 11-01-2012

4. FIRST AID INFORMATION

THRESHOLD LIMIT VALUE (TLV) AND SOURCE: NA

EFFECTS OF OVEREXPOSURE: None. (In fire or rupture situation see section 2 and section 4)

EMERGENCY FIRST AID PROCEDURES:

Skin and Eyes:
In the event that battery ruptures, flush exposed skin with copious quantities of flowing lukewarm water for a minimum of 15 minutes. Get immediate medical attention for eyes. Wash skin with soap and water.
Swallowing: If you or your doctor suspects that a battery has been ingested-for assistance in the US call the NATIONAL BATTERY INGESTION HOTLINE any time at (202) 625-3333: in Canada call 416-813-5900.
For more information, visit: http://www.nema.org/Policy/Environmental-Stewardship/Documents/batteryingest.pdf

5. FIRE FIGHTING MEASURES

FLASH POINT:	NA
LOWER (LEL):	NA
FLAMMABLE LIMITS IN AIR (%):	NA
UPPER (UEL):	NA
EXTINGUISHING MEDIA:	Use water, foam or dry powder, as appropriate.
AUTO-IGNITION:	NA

SPECIAL FIRE FIGHTING PROCEDURES: As with any fire, wear self-contained breathing apparatus to avoid inhalation of hazardous decomposition products (See section 2).

SPECIAL FIRE EXPLOSION HAZARDS: Like any sealed container, battery cells may rupture when exposed to excessive heat; this could result in the release of flammable or corrosive materials.

6. ACCIDENTAL RELEASE MEASURES

PROCEDURES TO CONTAIN AND CLEAN UP LEAKS OR SPILLS: In the event of a battery rupture, prevent skin contact and collect all released material in a plastic lined metal container.

REPORTING PROCEDURE: Report all spills in accordance with Federal, State and Local reporting requirements.

7. HANDLING AND STORAGE

Store in a dry place. Storing unpackaged cells together could result in cell shorting and heat build-up.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE):		NA
VENTILATION:	Local Exhaust:	NA
	Mechanical (General):	NA
	Special:	NA

Other:	NA
PROTECTIVE GLOVES:	NA
EYE PROTECTION:	NA
OTHER PROTECTIVE CLOTHING:	NA

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point @ 760 mm Hg (°C):	NA	Evaporation Rate (Butyl Acetate = 1):	NA
Vapor Pressure (mm Hg @ 25°C):	NA	Physical State:	NA
Vapor Density (Air = 1):	NA	Solubility in Water (% by Weight):	NA
Density (grams/cc):	NA	pH:	NA
Percent Volatile by Volume (%):	NA	pH:	NA
Appearance and Odor:	geometric solid object		

10. STABILITY AND REACTIVITY

STABLE OR UNSTABLE:	Stable
INCOMPATIBILITY (MATERIALS TO AVOID):	NA
HAZARDOUS DECOMPOSITION PRODUCTS:	NA
DECOMPOSITION TEMPERATURE (0°F):	NA
HAZARDOUS POLYMERIZATION:	Will Not Occur
CONDITIONS TO AVOID:	Avoid electrical shorting

11. TOXICOLOGICAL INFORMATION

INGREDIENT NAME	CAS #	%	TLV*
Nickel and compounds	7440-02-0	30-40	1.0 mg/m^3 (Soluble Compounds, TWA)
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**Source: OSHA 29 CFR 1910.1000 Table Z-1, 2 or 3 11-01-2012*

12. ECOLOGICAL INFORMATION

Under normal use these batteries do not release their ingredients into the environment. Damaged or abused batteries can release extremely small amounts of nickel or cobalt to the environment. Damaged batteries carelessly discarded could release small amounts of nickel or cobalt to storm or surface water. Do not place in fires-dispose of properly to prevent release.

13. DISPOSAL CONSIDERATIONS

Waste Nickel Metal Hydride Batteries are NOT considered a USEPA Hazardous Waste. Their collection and recycling are not required under US Federal Law but is recommended. Contact your battery distributor for details regarding recycling and disposal options or visit: http://www.nema.org/Policy/Environmental-Stewardship/Documents/Companies%20Claiming%20to%20Recycle.MARCH2005.pdf

14. TRANSPORTATION INFORMATION

TRANSPORTATION-SHIPPING: These are considered dry-cell batteries and they are non-dangerous goods for transportation. These batteries must be packed in a way to prevent short circuits or generation of a dangerous quantity of heat.
USDOT – See Special Provision 130
IMDG/Ocean – UN3496, Special Provision 963
ICAO/IATA – See Special Provision A123. It also states to put the words "not restricted" and special provision A123 on the air waybill when an air waybill is issued.

15. REGULATORY INFORMATION

SARA 313: Notification is not required because these products are article(s) that do not release a covered toxic chemical under the normal conditions of processing or use.

16. SDS INFORMATION

Environmental Health & Safety Information:	1-800-237-7000
EDITION DATE:	02-14-2013
APPROVED BY:	Kevin J. Domack

NOTICE: The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. Rayovac Corporation makes no warranty expressed or implied.