

# Material Safety Data Sheet

File No.: EBO2112135-M333

Date of Issue: January 1, 2022

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## 1. Identification of Substance

### Product Details

**Product Name:**

**NI-CD RECHARGEABLE BATTERY**

**Product Model:**

Ni-CD: AA100mAh, AA150mAh, AA200mAh, AA250mAh, AA300mAh, AA350mAh, AA400mAh, AA450mAh, AA500mAh, AA600mAh, AA700mAh, AA800mAh, AA900mAh, AA1000mAh, AA1100mAh, AA1200mAh, AA1300mAh, AA1400mAh, AA1500mAh, AA1600mAh, AA1700mAh, AA1800mAh, AA1900mAh, AA2000mAh, AA2100mAh, AA2200mAh, AA2300mAh, AA2400mAh, AA2500mAh, AA2600mAh

Ni-CD: AAA100mAh, AAA150mAh, AAA200mAh, AAA250mAh, AAA300mAh, AAA350mAh, AAA400mAh, AAA450mAh, AAA500mAh, AAA600mAh, AAA700mAh, AAA800mAh, AAA900mAh, AAA1000mAh

Ni-CD: 2/3AA100mAh, 2/3AA150mAh, 2/3AA200mAh, 2/3AA250mAh, 2/3AA300mAh, 2/3AA350mAh, 2/3AA400mAh, 2/3AA450mAh, 2/3AA500mAh, 2/3AA550mAh, 2/3AA600mAh

Ni-CD: 2/3AAA100mAh, 2/3AAA150mAh, 2/3AAA200mAh, 2/3AAA250mAh, 2/3AAA300mAh, 2/3AAA350mAh, 2/3AAA400mAh, 2/3AAA450mAh, 2/3AAA500mAh, 2/3AAA550mAh, 2/3AAA600mAh

Ni-CD: 4/5AA100mAh, 4/5AA200mAh, 4/5AA300mAh, 4/5AA350mAh, 4/5AA400mAh, 4/5AA500mAh, 4/5AA600mAh, 4/5AA700mAh, 4/5AA800mAh, 4/5AA900mAh, 4/5AA1000mAh, 4/5AA1100mAh, 4/5AA1200mAh, 4/5AA1300mAh, 4/5AA1400mAh, 4/5AA1500mAh, 4/5AA1600mAh, 4/5AA1700mAh, 4/5AA1800mAh, 4/5AA1900mAh

Ni-CD: 4/5SC600mAh, 4/5SC700mAh, 4/5SC800mAh, 4/5SC900mAh, 4/5SC1000mAh, 4/5SC1100mAh, 4/5SC1200mAh, 4/5SC1300mAh, 4/5SC1400mAh, 4/5SC1500mAh, 4/5SC1600mAh, 4/5SC1700mAh, 4/5SC1800mAh, 4/5SC1900mAh, 4/5SC2000mAh

Ni-CD: SC600mAh, SC700mAh, SC800mAh, SC900mAh, SC1000mAh, SC1100mAh, SC1200mAh, SC1300mAh, SC1400mAh, SC1500mAh, SC1600mAh, SC1700mAh, SC1800mAh, SC1900mAh, SC2000mAh, SC2200mAh, SC2400mAh, SC2600mAh, SC2800mAh, SC3000mAh

Ni-CD: C1500mAh, C1600mAh, C1700mAh, C1800mAh, C1900mAh, C2000mAh, C2100mAh, C2200mAh, C2300mAh, C2400mAh, C2500mAh, C2600mAh, C2700mAh, C2800mAh, C2900mAh, C3000mAh, C3500mAh, C4000mAh

Ni-CD: D3000mAh, D3500mAh, D4000mAh, D4500mAh, D5000mAh,



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D6000mAh, D7000mAh, D8000mAh

**Product use:**

Our batteries are mainly applied to cordless phones, walkmans, solar lights, electrical drills, shavers, emergency lights, and back-up power, etc.

## 2. Hazards Identification

**Hazard description:**

A sealed cell/battery is not hazardous in normal use.

In case of mistreatment (abusive charge, reverse charge, external short circuit...) and in case of fault, some electrolyte can leak from the cell through the sealing system. In these cases refer to the risks of potassium hydroxide solution (corrosive, pH > 14). The electrode materials are only hazardous, if the materials are released by mechanical damaging of the cell or if exposed to fire.

## 3. Composition/Data on Components

COMPONENT	CAS No.	% By wt.
NiOH	12054-48-7	16.7%
Cd(OH) <sub>2</sub>	21041-95-2	26.4%
FeO	1345-25-1	25.2%
Water	7732-18-5	18.3%
KOH	1310-58-3	8.0%
NaOH	1310-73-2	2.8%
Graphite powder	7782-42-5	2.6%

## 4. First aid Measures

**Eyes:**

To flush with clean water for fifteen minutes, If the allergy remains uncured, please turn to a doctor for help.

**Skin:**

Remove contaminated clothing. Wash with plenty of soap and water. If irritation occurs, get medical attention.

**Inhalation:**

Remove from exposure, rest and keep warm. In severe cases obtain medical attention.

**Ingestion:**

Rinse mouth with water and drink plenty of water. Consult a doctor.

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**Further treatment:** All cases of eye contamination, persistent skin irritation and casualties who have swallowed this substance or been affected by breathing its vapours should be seen by a Doctor.

## 5. Fire Fighting Measures

**Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Extinguishing media with limited suitability:** Water is only applicable for incipient fire.

**Special Fire-Fighting Procedures:** Wear full protective clothing and NIOSH-approved self-contained breathing apparatus. Avoid inhalation of material or combustion by-products.

## 6. Accidental Release Measures

**Person related measures:** Wear personal protective equipment adapted to the situation (protection gloves, cloth).

**Environment protection measures:** In the event of battery rupture, prevent skin contact and collect all released material in a plastic lined container.  
Dispose off according to the local law and rules.  
Avoid leached substances to get into the earth, canalization or waters.

**Treatment for cleaning:** If battery casing is dismantled, small amounts of electrolyte may leak. Pack the battery including ingredients as described above. Then clean with water (diluted acetic acid may be helpful).

## 7. Handling and Storage

Prohibit mechanical or electrical damage battery.

Stored in a dry, cool and ventilated environment, to avoid temperature changes or high temperature.

Keep away from heat, avoid prolonged sun exposure.

Against short circuit, overcharge, forced discharge, or in a fire.

Battery disassembly, crush, fire or high temperatures can cause fire or explosion, prohibit short-circuit or error operation.

## 8. Exposure Controls and Personal Protection

**Respiratory protection:** If the battery leaks, the need for full ventilation.

**Hand Protection:** Under normal use, do not.

**Personal Protection:** Under normal use, do not.

**Other protection:** Under normal use, do not.





**If the battery leaks, must wear the following protection products.**

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	<b>Respiratory protection</b>	In all fire situations, use self-contained breathing apparatus.
	<b>Hand protection</b>	In the event of leakage wear gloves.
	<b>Eye protection</b>	Safety glasses are recommended during handling.
	<b>Other</b>	In the event of leakage, wear chemical apron.

## 9. Physical and Chemical Properties

### General Information

Appearance characters: Mixed with odorless battery  
Voltage: 1.2V  
Capacity: 8000MAH  
pH: 12

## 10. Stability and Reactivity

Stability: Stable  
Hazardous Decomposition  
Products: N/A.  
Conditions to Avoid: Heating, mechanical abuse and electrical abuse.  
Hazardous Polymerization: If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons.

## 11. Toxicological Information

Primary irritant effect: None, unless battery ruptures. In the event of exposure to internal contents, corrosive fumes will be very irritating to skin, eyes and mucous membranes. Overexposure can cause symptoms of non-fibrotic lung injury and membrane

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	irritation.
<b>Inhalation:</b>	Lung irritant.
<b>Skin contact:</b>	Skin irritant
<b>Eye contact:</b>	Eye irritant.
<b>Ingestion:</b>	Tissue damage to throat and gastro-respiratory tract if swallowed.
<b>Medical conditions generally aggravated by exposure:</b>	In the event of exposure to internal contents, eczema, skin allergies, lung injuries, asthma and other respiratory disorders may occur.

## 12. Ecological Information

<b>Environmental Impact:</b>	Proper use and disposal of the battery will not harm the environment. Dispose of the battery, away from water, rain and snow.
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## 13. Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Dispose of the batteries in accordance with approved local, state, and federal requirements. Consult state environmental agency and/or federal EPA.

## 14. Transport Information

Nickel Cadmium batteries are considered to be "dry cell" batteries and are unregulated for purposes of transport by the US Department of Transportation (DOT), International Civil Aviation Administration (ICAO), International Air Transport Association (IATA 63rd edition 2022) and the International Maritime Organization (IMO).

The only requirements for shipping these batteries by DOT is Special Provision 130 which states "Batteries, dry are not subject to the requirements of this subchapter only when they are offered for transportation in a manner that prevents the dangerous evolution of heat (for example, by the effective insulation of exposed terminals).

The only requirements for shipping these batteries by ICAO and IATA 62nd edition 2021 is Special Provision A123 which states "an electrical battery or battery powered device having the potential of dangerous evolutions of heat that is not prepared so as to prevent a short circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals: or in the case of equipment, by disconnection of the battery and protection of exposed terminals) is forbidden from transportation."

## 15. Regulations

Law Information

《Dangerous Goods Regulation》

《Recommendations on the Transport of Dangerous Goods Model Regulations》

《International Maritime Dangerous Goods》

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《Technical Instructions for the Safe Transport of Dangerous Goods》

《Classification and code of dangerous goods》

OSHA Hazard Communication Standard Status

Toxic Substances Control Act (TSCA) Status

SARA Title III

RCRA

In accordance with all Federal, State and Local laws

## 16. Other Information

### DISCLAIMER OF LIABILITY

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