



Material Safety Data Sheet

MSDS Code: EBO1406152-M340

Date of Issue: July 3, 2014

NI-MH RECHARGEABLE BATTERY

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1. Identification Of Substance

Product Details

Product Name:

NI-MH RECHARGEABLE BATTERY

Product Model:

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
AAA100mAh	AAA150mAh	AAA200mAh	AAA250mAh	AAA300mAh
AAA350mAh	AAA400mAh	AAA450mAh	AAA500mAh	AAA600mAh
AAA700mAh	AAA800mAh	AAA900mAh	AAA1000mAh	2/3AA100mAh
2/3AA150mAh	2/3AA200mAh	2/3AA250mAh	2/3AA300mAh	2/3AA350mAh
2/3AA400mAh	2/3AA450mAh	2/3AA500mAh	2/3AA550mAh	2/3AA600mAh
2/3AAA100mAh	2/3AAA150mAh	2/3AAA200mAh	2/3AAA250mAh	2/3AAA300mAh
2/3AAA350mAh	2/3AAA400mAh	2/3AAA450mAh	2/3AAA500mAh	2/3AAA550mAh
2/3AAA600mAh	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	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	SC600mAh	SC700mAh	SC800mAh	SC900mAh
SC1000mAh	SC1100mAh	SC1200mAh	SC1300mAh	SC1400mAh
SC1500mAh	SC1600mAh	SC1700mAh	SC1800mAh	SC1900mAh
SC2000mAh	SC2200mAh	SC2400mAh	SC2600mAh	SC2800mAh
SC3000mAh	C1500mAh	C1800mAh	C2000mAh	C2500mAh
C3000mAh	C3500mAh	C4000mAh	D3000mAh	D3500mAh
D4000mAh	D4500mAh	D5000mAh	D6000mAh	D7000mAh
D8000mAh				

Manufacturer/Supplier By:

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2. Composition/Data On Components

COMPONENT	CAS #	% by wt.
Nickel	7440-02-0	20%
Alloy powder	/	26.4%
Iron	7439-89-6	16.7%
Water	7732-18-5	18.3%
K	7440-09-7	9.8%
Na	7440-23-5	

3. Hazards Identification

Hazard description: This product contains Nickel compounds which have been classified as carcinogens or potential carcinogens as listed by OSHA, IARC or NTP. This product contains material considered hazardous by the OSHA Hazard Communication Standard (29 CFR 191.0.1200). Potential Environmental Effects: See Section 12 for more information (Not listed).

4. First aid Measures

Eyes: Rinse opened eye for several minutes under running water. Then consult a doctor.

Skin: Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.

Inhalation: Supply fresh air. If necessary give oxygen. Keep patient warm.
Seek immediate medical advice.

Ingestion: In case of ingestion of electrolyte DO NOT induce vomiting. If victim is conscious and alert give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Seek immediate medical advice.

5. Fire Fighting Measures

Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

Special hazards caused by the material, its products of combustion or resulting gases: Emits toxic fumes under fire conditions.

Protective equipment: Wear self-contained respiratory protective device.



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6. Accidental Release Measures

Spill or Leak:	Modules inside the battery pack are sealed against electrolyte loss. Under normal handling spillage of alkali electrolyte will not occur. Battery may emit electrolyte or hydrogen gas if charging or discharging rates exceed manufacturer's recommendations or if pack has been breached.
Methods for Containment:	Move battery pack to well ventilated area to prevent hydrogen gas accumulation, if electrolyte leaks or spills, neutralize with a weak acid such as vinegar or citric acid before proper disposal. In the event of accumulated electrolyte contain and neutralize spill. Dispose in accordance with applicable local, state and federal regulations.

7. Handling And Storage

Handling

Information for safe handling:	Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust.
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Information about protection against explosions and fires:	Keep ignition sources away - Do not smoke.
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Storage

Requirements to be met by storerooms and receptacles:	Store in a cool location.
Information about storage in one common storage facility:	Store away from flammable substances. Do not store together with oxidizing and acidic materials.

Further information about storage conditions:	Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.
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8. Exposure Controls And Personal Protection

Personal protective equipment:	
General protective and hygienic measures:	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the skin.



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Breathing equipment:	Avoid contact with the eyes and skin. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer. Exposure use respiratory protective device that is independent of circulating air.
Protection of hands:	Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the Degradation
Material of gloves:	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material:	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection:	Tightly sealed goggles

9. Physical And Chemical Properties

General Information

Form:	Solid
Color:	Mixed
Odor:	Odorless
Boiling Point:	Not Applicable
Melting Point:	Not Applicable
Vapor Pressure:	Not Applicable
Vapor Density:	Not Applicable
Solubility In Water:	Not Applicable
Specific Gravity (H ₂ O = 1):	Not Applicable
pH:	Not Applicable
Freezing Point:	Not Applicable
Molecular Weight:	Mixture, Not Applicable



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10. Stability And Reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Dangerous reactions: No dangerous reactions known.
Dangerous products of decomposition: No dangerous decomposition products known.

11. Toxicological Information

Acute Effects: Under normal conditions of use, the risk of exposure to hazardous components is minimal. If the cells become damaged due to mechanical failure or fire, contact with hazardous materials is possible.

Chronic Effects: Under normal conditions of use, the risk of long-term exposure to hazardous components is minimal. Prolonged inhalation of metal dusts or electrolyte mists may cause serious respiratory illness. The chronic effects of long-term exposure to nickel bearing alloys (nickel metal hydride) are currently unknown. According to the national toxicology program (NTP) insoluble nickel compounds (nickel hydroxide) may reasonably be anticipated to be carcinogens, and an assessment by International Agency for Research on Cancer (IARC) concluded there was sufficient evidence that nickel and nickel compounds, as a group, but not necessarily as individual chemicals, were carcinogenic to humans. Cobalt compounds have been classified as carcinogens or potential carcinogens by OSHA and IARC.

12. Ecological Information

General notes:
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or Sewage system.

13. Disposal Considerations

Product-Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings-Recommendation: Disposal must be made according to official regulations.



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14. Transport Information

This Battery is unregulated for purpose of transportation by U.S. Department of Transportation (DOT), International Civil Aviation Administration (ICAA), International Air Transport Association (IATA) and the International Maritime Dangerous Goods regulations (IMDG). The only DOT requirement for shipping these batteries 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 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. "The International Maritime Dangerous Goods Code (IMDG) regulate them for ocean transportation under Special Provision 304 which says: "Batteries, dry, containing corrosive electrolyte which will not flow out of the battery if the battery case is cracked are not subject to the provisions of this Code provided the batteries are securely packed and protected against short-circuits. Examples of such batteries are: nickel metal hydride and nickel-cadmium batteries".

The requirements for shipping these batteries, in all modes of transportation, are that they be separated from each other to prevent short-circuits and to prevent movement that could lead to short-circuits. Products must also be packed in strong packaging that can withstand the rigors normal to transportation.

Transport fashion: By air, by sea, by rail, by highway.

15. Regulations

Law Information

- 《Dangerous Goods Regulation》
- 《Recommendations on the Transport of Dangerous Goods Model Regulations》
- 《International Maritime Dangerous Goods》
- 《Technical Instructions for the Safe Transport of Dangerous Goods》
- 《Classification and code of dangerous goods》
- 《Occupational Safety and Health Act》 (OSHA)
- 《Toxic Substances Control Act》 (TSCA)
- 《Consumer Product Safety Act》 (CPSA)
- 《Federal Environmental Pollution Control Act》 (FEPCA)
- 《The Oil Pollution Act》 (OPA)
- 《Superfund Amendments and Reauthorization Act Title III (302/311/312/313)》 (SARA)
- 《Resource Conservation and Recovery Act》 (RCRA)
- 《Safety Drinking Water Act》 (CWA)



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《California Proposition 65》

《Code of Federal Regulations》 (CFR)

In accordance with all Federal, State and Local laws.

16. Other Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.



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