

Safety Data Sheet

According to the Occupational Safety and Health Standards Hazard Communication (CFR29 1910.1200) HazCom 2012



Trade name: **Nickel Metal Hydride Battery for ACD-200 Bobcat**

Product No: **AC09006**

Print date: 09.20.19

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Revision date:

SECTION 1: Identification

1.1 Product identifier: Nickel Metal Hydride Battery for the ACD-200 Bobcat™ Air Sampler

The batteries referenced herein are exempt articles and are not subject to OSHA Hazard Communication Standard requirements. This entire document is provided solely as an information source for the purpose of assisting our customers.

According to OSHA Regulation (29 CFR 1910.1200), Canadian WHMIS or GHS requirements, and REACH regulation (EC 1907/2006, Art 31), batteries have been defined as an 'ARTICLES', with no intended release. OSHA has defined an 'article' as a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than minute or trace amounts of a hazardous chemical and does not pose a physical hazard or health risk to employees. Because all of our batteries are defined as "articles", they are exempt from the legal requirements of the Hazard Communication Standard to provide an SDS or MSDS.

1.2 Relevant identified use of the substance:

Battery Power for the ACD-200 Bobcat Air Sampler

1.3 Details of the supplier of the safety data sheet:

Supplier:

InnovaPrep LLC
132 East Main Street
Drexel, MO 64742
816-619-3375
info@innovaprep.com

1.4 EMERGENCY TELEPHONE NUMBER:

Emergency Phone:

For hazardous or Dangerous Goods incident - spill, leak, fire, exposure, or accident call InnovaPrep Environmental Health and Safety
816-506-2843

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

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Product Name: Battery, Dry

Chemical System: Nickel Metal Hydride, (Rechargeable)

NSN: 6140-01-490-4317

Nominal Weight: 4.0 lb (1.8 Kg)

Nominal Voltage: 24 Volts (2 ea 12V sections)

2.2 Label elements

Signal word: Warning

Hazard statements:

All Chemicals are potentially dangerous. They should be handled by specially trained personnel.

SECTION 3. Composition/information on ingredients

3.1 Substances

Substance name	CAS No.	%
Nickel (powder)	7440-02-0	8
Nickel Hydroxide	12054-48-7	24
Cobalt 74	7440-48-4	3
Manganese	7439-96-5	1.3
Lanthanum	7439-91-0	4
Cerium	7440-45-1	-
Neodymium	7440-00-8	4
Potassium Hydroxide	1310-58-3	2.5
Sodium Hydroxide	1310-73-2	1

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SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Each battery cell is contained in a sealed metal can, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, hazardous materials are fully contained inside the battery cell. Each cell is a sealed container enclosing the electrodes and electrolyte.

Chronic exposure to nickel may result in cancer, dermal contact may result in dermatitis in sensitive individuals. Cobalt has been identified as a 2B carcinogen.

Inhalation: Not likely during normal usage. If cell case is breached from extreme heat/pressure, exposure to ingredients could occur. As in any fire situation, use self-contained breathing apparatus, (SCBA).

Skin contact: Not likely during normal usage. If cell case is breached from extreme heat/pressure, exposure to ingredients could occur. Flush with water; wash with soap and water. If irritation persists, contact physician.

Eye contact: If battery is leaking and material comes in contact with eyes, flush with copious amounts of clear, tepid water for 30 minutes assure adequate flushing by separating the eyelids with fingers. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

No further information available

4.3 Indication of any immediate medical attention and special treatment needed

No further information available

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SECTION 5: Firefighting measures

5.1 Extinguishing

Suitable extinguishing media: Any class of extinguishing medium may be used on the batteries or their packing material.

Unsuitable extinguishing media: No further information available.

5.2 Special hazards arising from the substance or mixture

Organic compounds will burn if incinerated. Combustion of cell contents will cause evolution of extremely corrosive Hydrogen Fluoride Gas.

5.3 Precaution for fire-fighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. May intensify fire; oxidizer.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ventilation: Not required under normal use.

Protective Gloves: When handling leaking or open batteries.

Eye Protection: Wear safety glasses with side shields if handling a leaking battery.

6.2 Environmental precautions:

No specific measures necessary.

6.3 Methods and material for containment and cleaning up

Avoid skin and eye contact. Collect all released material in a plastic bag for waste.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures: Avoid incineration or mutilation. Use battery in proper equipment and observe proper polarity. Use only proper chargers for NiCd and NiMH batteries.

Accidental short circuit could bring high temperature elevation to the battery and will shorten the battery life. Ni-MH batteries have internal short circuit protection, but condition should still be avoided. Any resulting heat can burn attendant skin and even rupture the battery cell case.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Store in cool, dry place.

SECTION 8: Exposure controls/personal protection

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.1 Control parameters

8.2 Exposure controls

Personal protective equipment: The usual precautionary measures are to be adhered to when handling chemicals.

Eye / Face protection: Use safety glasses. Ensure that eyewash stations and safety showers are proximal to the work station.

Skin protection: Gloves and laboratory coat

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Respiratory protection: Not applicable

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Form: Rectangular box shape

SECTION 10: Stability and reactivity

10.1 Chemical stability:

Stable under recommended storage conditions.

10.2 Possibility of hazardous reactions:

Hazardous Decomposition or By-products: Oxides of nickel.

Hazardous Polymerization: Will not occur.

10.3 Conditions to avoid:

Conditions to Avoid: Do not heat or disassemble. Avoid heat, open flames, sparks and moisture.

10.4 Incompatible materials:

Potential Incompatibilities:

The battery cells are encased in a non-reactive container; however, if the container is breached, avoid contact of internal battery components with acids, aldehydes and carbonate compounds.

10.5 Hazardous decomposition products:

Thermal degradation may produce hazardous fumes of manganese and lithium; hydrofluoric acid; oxides of carbon and sulfur and other toxic by-products.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

No data available.

SECTION 12: Ecological information

12.1 Toxicity:

No data available.

12.2 Persistence and degradability:

No data available.

12.3 Bioaccumulative potential:

No data available.

12.4 Mobility in soil:

No data available.

12.5 Results of PBT and vPvB assessment:

No data available.

12.6 Other adverse effects:

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Do not incinerate. Dispose in accordance with local, state and federal regulations. Small quantities may be allowed in household trash.

In case of spill: Collect all released material in a plastic bag for waste.

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SECTION 14: Transport information

14.1 Domestic transport USA

Domestic Transportation within the U.S: These batteries, referred to as “Batteries, dry, sealed, n.o.s.,” (also known as Dry Cell Batteries), are generally excepted from hazardous materials regulations provided they meet the requirements of **Special Provision 130 of 49 CFR, which requires ALL BATTERIES BE PACKED IN SUCH A WAY TO PREVENT SHORT CIRCUITS** or the generation of dangerous quantities of heat and be contained in ‘strong outer packaging’ that prevents spillage of contents. However, nickel metal hydride batteries (UN3496) shipped by sea in quantities over 100 kg are subject to additional restrictions in accordance with Special Provision 340. Batteries with a voltage exceeding 9 Volts and transported by aircraft must have the words “not restricted” marked on each package or on a transport document such as an air waybill accompanying the shipment.

14.2 International transport & Sea transport

International Transport: These batteries, referred to as “Batteries, electric storage, (also known as Dry Cell Batteries), are generally excepted from hazardous materials regulations provided they meet the requirements of Special Provision A123. Special Provision A199, assigned against the entry for UN3496, “Batteries, nickel-metal hydride”, states that UN3496 only applies in sea transport and that provided nickel-metal hydride batteries are prepared in accordance with this special provision, they are “not restricted” in air transport. **ALL BATTERIES MUST BE PACKED IN SUCH A WAY TO PREVENT SHORT CIRCUITS** or the generation of dangerous quantities of heat. The IATA DGR require the words “Not Restricted” and “Special Provision A199,” to appear in the description of the substance on an air waybill, when an air waybill is used. Additionally, refer to IMDG Code, Special Provision 963 for sea transport only. Dry cell batteries are not subject to regulation under the ADR.

14.3 Special precautions for users:

Not applicable

SECTION 15: Regulatory information

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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further information.

15.2 Chemical Safety Assessment

No further information.

SECTION 16: Other information

Charging: This battery is designed for recharging. A loss of voltage and capacity of batteries due to self-discharging during prolonged storage is unavoidable. Charge battery before use.

Observe the specified charge rate since higher rates can cause a rise in internal gas pressure which may result in damaging heat generation or cell rupture and or venting.

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