

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name: Nickel Cadmium (Nicc) Sealed Rechargeable Cells/Batteries (Sealed Dry Type)

Address: 825 S 19th Street, Richmond, CA 94804, **Tel:** 510-525-2328

Email: sales@batteryspace.com

Recommended Use: Rechargeable power source

Restrictions on Use: Do not open, crush, incinerate, or short circuit

Section 2 – Hazards Identification

Classification

Hazard Class: N/A

Health Hazards: N/A

Environmental Hazard: N/A

Articles (sealed batteries) are not hazardous under normal conditions of use.

Internal components contain hazardous materials. Exposure may occur if battery is damaged or opened.

Label Elements

Symbol: None

Signal word: None

Hazard Statements (if contents exposed)

- Toxic if inhaled (cadmium compounds)
- Causes skin and eye irritation
- May cause cancer (cadmium)
- Harmful to aquatic life

Precautionary Statements: Do not disassemble / Avoid short circuit / Avoid exposure to fire or high temperatures

Other risks: None

Section 3 – Composition/Information on Ingredient

The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

Component	CAS No.	Approx. %
Nickel hydroxide	12054-48-7	20–40%
Cadmium / Cadmium oxide	7440-43-9 / 1306-19-0	10–30%
Potassium hydroxide (electrolyte, absorbed)	1310-58-3	5–15%

Section 4 – First Aid Measures

Inhalation: If exposed to contents, move to fresh air. Seek medical attention.

Skin Contact: Wash thoroughly with water. Remove contaminated clothing.

Eye Contact: Flush with water for 15 minutes. Seek medical attention.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

Protection for first-aiders: Rescuers wear protective equipment such as rubber gloves and tight-fitting safety goggles.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media: Water spray, CO₂, dry chemical, foam

Specific Hazards: May emit toxic fumes including cadmium oxide and nickel compounds if burned.

Protective Equipment: Extinguish fire from upwind. Wear appropriate protective clothes for chemical (self-contained breathing apparatus, protective glasses, etc.) to fire fighting.

Section 6 – Accidental Release Measures

If battery is intact: No special measures required.

If battery is damaged/leaking:

- Avoid contact with electrolyte
- Wear gloves and eye protection
- Absorb spilled material with inert material
- Dispose according to regulations

Section 7 – Handling and Storage

Handling:

- Do not crush or puncture
- Do not short circuit terminals
- Do not mix old and new batteries

Storage:

- Store in cool, dry, ventilated area
- Keep away from heat and open flame
- Use a sealed container without damage or leakage.

Section 8 – Exposure Controls / Personal Protection

Not required during normal use.

If battery is damaged:

- Gloves (chemical resistant)
- Safety glasses
- Adequate ventilation

Section 9 – Physical and Chemical Properties

Appearance: Cells: Cylindrical sealed metal cell;

Battery Packs: Rectangular, heat-shrink wrapper sealed

Odor: Odorless

pH: Not applicable (sealed article)

Melting Point: Not applicable

Flash Point: Not applicable

Solubility: Not applicable

Section 10 – Stability and Reactivity

Stability: Stable under normal conditions

Conditions to Avoid: Heat, fire, mechanical damage

Hazardous Decomposition: Cadmium oxide fumes, nickel oxides

Section 11 – Toxicological Information

Exposure to internal contents may cause:

- Cadmium: carcinogenic, kidney toxicity
- Nickel compounds: sensitization, respiratory irritation
- Potassium hydroxide: corrosive to skin and eyes

No hazard under normal sealed conditions.

Section 12 – Ecological Information

Cadmium compounds are highly toxic to aquatic life.

Prevent release of damaged batteries into the environment.

Section 13 – Disposal Considerations

Dispose in accordance with local, state, and federal regulations.

Nickel-Cadmium batteries are typically regulated for recycling due to cadmium content.

Do not incinerate. Recycle through authorized battery recycling programs.

Section 14 – Disposal Considerations

UN Number: Not regulated / No UN number assigned

Proper Shipping Name: Not applicable

Hazard Class: Not regulated/ dry cell/battery, Not restricted

Packing Group: Not applicable

U.S. DOT (49 CFR): Not regulated when properly packaged and protected against short circuit.

IATA (Air Transport):

Not restricted if:

- No free liquid
- Terminals protected
- Secure packaging

No Shipper's Declaration required.

IMDG (Sea Transport): Not regulated as dangerous goods.

Section 15 – Regulatory Information

TSCA: Components listed or exempt

OSHA: Regulated as article

RCRA: May be considered hazardous waste if disposed improperly (cadmium content)

California Proposition 65: Contains cadmium, known to cause cancer

Section 16 – Other Information

This SDS is provided for information purposes regarding safe handling and transport of sealed Nickel-Cadmium batteries.

The battery is an article under OSHA definition and does not release hazardous chemicals under normal conditions of use.

Prepared by: AA Portable Power Corp

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