



Ascent Battery Supply, LLC
1325 Walnut Ridge Drive
Hartland, Wisconsin 53029

Safety Data Sheet (SDS)

Nickel Cadmium (NiCd) Batteries

The information and recommendations below are believed to be accurate at the date of document preparation. Ascent Battery Supply makes no warranty or merchantability or any other warranty, express or implied, with respect to this information and assumes no liability resulting from its use. This SDS provides guidelines for safe use and handling of product. It does not, and cannot, advise all possible situations. All specific uses of this product must be evaluated by the end user to determine if additional safety precautions should be taken.

SECTION 1 - IDENTIFICATION

Product Name	Nickel Cadmium Battery	Emergency Number	CHEMTREC 1-800-424-9300
Common Name(s)	NiCd, NiCad, Nickel Cadmium	International Emergency Number	CHEMTREC +1 703-741-5970
Synonyms	Nickel Cadmium Rechargeable Battery		
DOT Description	Dry Battery		
Chemical Name	Nickel Cadmium Secondary Battery		
Distributed By	Ascent Battery Supply, LLC		
Address	1325 Walnut Ridge Drive Hartland, Wisconsin 53029		

SECTION 2 – HAZARD(S)

Unusual Fire and Explosion Hazards Cells may rupture when exposed to excessive heat. This could result in the release of flammable or corrosive materials.

SECTION 3 – COMPOSITION

Chemical Name	CAS No.	Wt. Percentage %
Nickel	7440-02-0	15-22%
Potassium Hydroxide	1310-58-3	1.5-3%
Mercury	7439-79-6	≤5 ppm
Lead	7439-92-1	≤10 ppm
Cadmium	7440-43-9	18-26%
Other/Housing	n/a	balance

SECTION 4 – FIRST AID MEASURES

Inhalation Get fresh air. If symptoms persist seek medical attention

Eyes and Skin **Skin:** Flush with copious quantities of flowing lukewarm water for a minimum of 15 minutes; wash with soap and water
Eyes: Flush with copious quantities of flowing lukewarm water for a minimum of 15 minutes; get immediate medical attention.

Ingestion Ingestion of battery chemicals can be harmful. Call The National Battery Ingestion Hotline (202-625-3333) 24 hours a day, for procedures treating ingestion of chemicals. Do not induce vomiting.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguisher Media Use CO₂, foam or dry chemical extinguishers. Sand may also be used.

Special Fire Fighting Procedures Wear self-contained breathing apparatus to avoid inhalation of hazardous decomposition products.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

In case of accidental rupture or release: prevent skin and eye contact and collect all released material in a plastic lined metal container. Leaking batteries should be handled with gloves. Wear protective clothing. Use a self-contained breathing apparatus if in the presence of chemical vapor. See also: sections 4, 5, and 8.

SECTION 7 – HANDLING AND STORAGE

1. Store in a dry place with ambient temperature between -20°C(-4°F) and 35°C(95°F).
2. Do not store unpacked cells together: avoid cells shorting to one another – especially in a charged state.
3. Do not mix new and used batteries.
4. Do not disassemble.
5. Do not store with conductive objects.
6. Store away from flame or spark hazards.

SECTION 8 – EXPOSURE/PERSONAL PROTECTION

Respiratory Protection	None required under normal handling conditions
Gloves	Wear gloves if cell is ruptured, corroded, or leaking materials
Safety Glasses	Always wear safety glasses with working with battery cells

SECTION 9 – PHYSICAL/CHEMICAL PROPERTIES

Boiling Point	N/A	Melting Point	N/A
Vapor Pressure	N/A	Vapor Density	N/A
Specific Gravity	N/A	Evaporation Rate	N/A
Solubility in Water	N/A	Appearance and Odor	Cylindrical, solid object, odorless

SECTION 10 – STABILITY & REACTIVITY

Reactivity in Water	N/A	Auto-Ignition Temperature	N/A
Flash Point	N/A	Flammable Limits in Air, by vol.	N/A
Percent Volatile By Volume	N/A		
Stable	Avoid electrically shorting the cell. Under normal conditions this product is stable and will not decompose.		
Incompatibility (materials to avoid)	N/A		

SECTION 11 – TOXICOLOGICAL INFORMATION

Threshold Limit Value	N/A
Signs and Symptoms of Exposure	None. (In fire or rupture situations, refer to sections 4, 5, & 8.)
Medical Conditions Generally Caused by Exposure	Chemicals may cause burns to skin, eyes, gastrointestinal tract and mucous membranes. Inhalation of electrolyte vapors may cause irritation of the upper respiratory tract and lungs.
Routes of Entry	Skin, Eyes, Ingestion (swallowing)

SECTION 12 – ECOLOGICAL INFORMATION

Hazardous Decomposition Products	N/A
Hazardous Polymerization	Will not occur

Under normal use these batteries do not release internal ingredients into the environment. Damaged or abused batteries may release small amounts of cadmium, nickel or carbon oxides. Do not carelessly discard, as small amounts of cadmium may be released into storm or surface water. Do not discard batteries into a fire. Dispose of properly or recycle.

SECTION 13 - DISPOSAL

Dispose of batteries according to all Federal, State and local laws and regulations.

SECTION 14 – TRANSPORT

These batteries must be packaged in a way that prevents the dangerous evolution of heat and protects the terminals from short circuit. When properly packaged and labeled, these dry batteries are not subject to dangerous goods regulation for the purpose of transportation and fall under special provision of the agencies listed in Section 15.

SECTION 15 – REGULATORY INFORMATION

IATA Not considered to be 'dangerous goods' when packaged properly
DOT Not considered to be a 'hazardous material' when packaged properly
ICAO Not subject when packaged properly
IMDG Not subject when packaged properly
UN2800 Exempted when packaged properly

SECTION 16 - OTHER

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