

## **Material Safety Data Sheet**

## **Nickel Cadmium**

The information and recommendations below are believed to be accurate at the date of preparation. Ascent Battery makes no warranty of merchantability or any other warranty, express or implied, with respect to such information and we assume no liability resulting from its use. This MSDS sheet provides guidelines for safe use and handling of the product. It does not and cannot advise all possible situations. Your specific use of this product should be evaluated to determine if additional precautions must be taken.

Distributed By:	Ascent Battery Supply, LLC	Emergency Number	INFOTRAC (800) 535-5053
		Overseas	
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Address	Hartland, Wisconsin 53029	Number	INFOTRAC (800) 535-5053
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## **SECTION 1 – IDENTITY**

**Product Name** 

Nickel Cadmium Battery

Common

Synonyms DOT Description NiCd Dry Battery

Chemical Name

Nickel Cadmium; Secondary Battery

Battery

SECTION 2 – HAZARDOUS INGREDIENTS					
Chemical Name CAS No. Percentage %					
Cadmium	7440-43-9	11 - 26			
Cadmium Hydroxide	21041-95-2	11 - 26			
Nickel (Powder)	7440-02-0	8 - 17			
Nickel Hydroxide	12054-48-7	5 - 12			
Potassium Hydroxide	1310-58-3	< 3			
Nylon	N/A	<2			
Steel	N/A	12 - 13			
Other	N/A	<1			

Boiling Point	NA	Melting Point	NA
Vapor Pressure	NA	Vapor Density	NA
Specific Gravity	NA	Percent Volatile By Volume	NA
Solubility in Water	NA	Reactivity in Water	NA
Appearance and Odor	Geo-metric, solid object	Evaporation Rate	NA
Flash Point	NA	Flammable Limits in Air % by Volume	NA
Extinguisher Media	Use Water, foam or dry powder	Auto-Ignition Temperature	NA
Special Fire Fighting Procedures	Wear self-contained breathing apparatus to avoid inhalation of hazardous decomposition products.		
Unusual Fire & Explosion	Cells may rupture when exp	osed to high heat resulting in relea	se of corrosive materials.

SECTION 4_	PHYSICAL HAZARDS
Stable or Unstable	Stable Conditions to Avoid Electrical shorting the cell.
Otable of Oristable	Citable Conditions to Avoid Circuital Shorting the Con.
Incompatibility	NA NA
(Materials to Avoid)	
Hazardous	NA
Decomposition Products	
Hazardous	Will Not Occur
Polymerization	Will Not Occur
SECTION 5-I	IEALTH HAZARDS
Threshold	NA NA
Limit Value	
Signs and Sympton	S None (In fire or rupture situation see section 2 and section 4.)
of Exposure	
Medical Conditions Generally Caused by	Chemicals may cause burns to skin, eyes, gastrointestinal tract and mucous membranes.
Exposure	<ul> <li>Contact with skin may cause chronic eczema or nickel itch. Electrolyte is extrememly corrosive to eye tissue and may cause permanent blindness. If swallowed it may cause choking, nausea,</li> </ul>
Lyposuie	persistant vomitting, diarrhea, abdominal pain, dizziness, faintness, unconsciousness, and
	possible liver and kidney injury.
Routes of Entry	Skin, Eyes, Swallowing
Emergency and Firs Aid Procedures for	Nickel Cadmium Chemicals
1. Inhalation	Get fresh air. If symptoms persist seek medical attention
2. Eyes and Skin	If a cell ruptures, flush with copious quantities of flowing lukewarm water for a minimum of 15 minutes. Get immediate medical attention for eyes. Wash skin with soap and water.
4. 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. Dilute by giving milk and water.
	PECIAL PROTECTION INFORMATION
Respiratory Protection	NA
Ventilation	NA Local NA Mechanical NA
	Exhaust (General)
	ves if cell Safety Glasses Always wear safety glasses when working with batteries and
	is corroded or cells.
Other Protective	hemicals.
Equipment	NA
Lquipment	
SECTION 7 - S	PECIAL PRECAUTIONS – SPILL AND LEAKAGE PROCEDURES
Precautions to be	Store in dry place. Storing unpacked cells together could result in cells shorting and heating to the
Taken when	point of rupturing.
Handling and	
Storing	
Other Precautions	If packaging materials are not available place masking taped on positive and negatives ends of the cells.
Steps to be Taken	If cells are leaking or rupture, prevent skin and eye contact and collect all released material in a
if chemicals are	plastic lined container.
spilled	
Waste Disposal	Cells must be recycled.
Transportation	These are considered to be "Dry Batteries" and are not considered a "Hazardous Materiai" per U.S. DOT (Department of Transportation) regulations or "dangerous goods" per IATA (International Air Transport Associtation) regulations.
	Transport Association) regulations.