

Material Safety Data Sheet

Nickel Metal Hydride

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

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Number

1-631-595-9206

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SECTION 1 – IDENTITY

Product Name

Nickel Metal Hydride Battery

Common

NIMH

Synonyms

DOT Description Dry Battery

Chemical Name

Nickel Metal Hydride; Secondary

Battery Battery

SECTION 2 – HAZARDOUS INGREDIENTS				
Chemical Name	CAS No.	Percentage %		
Nickel	7440-02-0	30 – 40		
Cobalt	7440-48-4	4 – 8		
Manganese	7439-96-5	<2		
Potassium Hydroxide	1310-58-3	10 – 15		
Sodium Hydroxide	1310-73-2	4		
Lithium Hydroxide	1310-65-2	0 – 4		
Other	N/A	<13		

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

SECTION 4-P	PHYSICAL HAZARDS				
Stable or Unstable	Stable Conditions to Avoid Electrical shorting the cell.				
Incompatibility	NA .				
(Materials to Avoid)					
Hazardous	NA				
Decomposition					
Products					
Hazardous	Will Not Occur				
Polymerization					
SECTION 5-H	HEALTH HAZARDS				
Threshold	NA NA				
Limit Value					
Signs and Symptom	None (In fire or rupture situation see section 2 and section 4.)				
of Exposure	1 Hours (in the or repeate attention and appears in with appears in				
Medical Conditions	Chemicals may cause burns to skin, eyes, gastrointestinal tract and mucous	membranes			
Generally Caused by	Contact with skin may cause chronic eczema or nickel itch. Electrolyte is ex	Contact with skin may cause chronic eczema or nickel itch. Electrolyte is extrememly corrosive to			
Exposure		eye tissue and may cause permanent blindness. If swallowed it may cause choking, nausea,			
ryhoania	persistant vomitting, diarrhea, abdominal pain, dizziness, faintness, unconsc				
	possible liver and kidney injury.	www. wille			
Routes of Entry	Skin, Eyes, Swallowing				
	mining my man minimum.				
Emergency and First	t Nickel Metal Hydride Chemicals				
Aid Procedures for	•				
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			
z. Lyesand Skiii	minutes. Get immediate medical attention for eyes. Wash skin with soap ar				
4. Ingestion	Ingestion of battery chemicals can be harmful. Call The National Battery Ing	estion Hotline			
	(202-625-3333) 24 hours a day, for procedures treating ingestion of chemical	ls. Do not induce			
	vomiting. Dilute by giving milk and water.				
SECTION 6 - S	SPECIAL PROTECTION INFORMATION				
Respiratory	NA				
Protection	(V)				
Ventilation	NA Local NA Mechanical NA				
* Ontinution	Exhaust (General)				
Gloves Wear glo	oves if cell Safety Glasses Always wear safety glasses when work	ing with hatteries and			
	is corroded or cells.	mg man battorioo ana			
	chemicals.				
Other Protective	NA				
Equipment	11/17				
Equipment					
SECTION 7 S	SPECIAL PRECAUTIONS - SPILL AND LEAKAGE PROC	EUIIBE6			
Precautions to be	Store in dry place. Storing unpacked cells together could result in cells shorting	and neating to the			
Taken when	point of rupturing.				
Handling and					
Storing					
Other Precautions	If packaging materials are not available place masking taped on positive and neg	atives ends of the			
Class to be Telese	cells. If cells are leaking or rupture, prevent skin and eye contact and collect all release	d material in a			
Steps to be Taken		u material ili d			
if chemicals are	plastic lined metal container.				
spilled :					
Waste Disposal	Cells must be recycled.	. Marka - 12 A			
Transportation	These are considered to be "Dry Batteries" and are not considered a "Hazardous Material" per U.S.				
	DOT (Department of Transportation) regulations or "dangerous goods" per IATA	(International Air			
	Transport Associtation) regulations.				