

Material Safety Data Sheet	Model No.: Nie	ckel-Metal Hydride Battery
Document Number: KLY-M-0101	Revision:2.0	Page 1 of 4
(As Used on Label and List)	is not	e not permitted if any item
	I marked to indicate that.	

Section I - Information of Manufacturer

Manufacturer's Name YiYang Corun Battery Co.,Ltd.	Emergency telephone Number
Address(Number, Street, City State, and ZIP Code) Chao Yang Development Zone, Yi Yang city, Hunan province, china	Telephone Number for information +86) 0737-6202918
	Date of prepared and revision 22 July 2013
	Signature of Preparer(optional)

Section II -Hazardous Ingredients/Identity Information

Hazardous Components:

A) The content of elements are based on homogeneous materials level of NiMH battery:

Element	Lead		Hexavalent Chromium (Cr6+)	Ĭ	Biphenyls	Polybrominated Diphenyls Ethers (PBDEs)
Limit (mg/kg)	<1000	<100	<1000	<1000	<1000	<1000
CAS no.	7439-92-1	7440-43-9	18540-29-9	7439-97-6	59536-65-1	

B) The content of elements are based on total weight of NiMH battery:

Element	Lead	Cadmium	Hexavalent Chromium (<u>Cr6</u> +)	Mercury	Polybromin Biphenyls ₍ P		,	brominated enyl Ethers (PBDEs)
Limit (mg/kg)	<40	<20	<5	<5	Nil			Nil
Element	Ni(OH)2 (Nickel Hydroxide)	KOH Solution (Potassium)	NaOH Solution (Sodium)	Co (cobalt)	Fe (lron)	(Cu copper)	Non-Hazardous Materials
Limit (wt%)	<35%	<5%	<5%	<8%	<12%	<	<5%	<30%
CAS no.	12054-48-7	1310-58-3	1310-73-2	7440-48-4	7439-89-6	7	440-50-8	

High Technology Industry Park, ChaoYang Development Zone, YiYang city, Hunan province, china Telephone: (086) 737 6202918 Website: http://www.corun.com

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Material Safety Data Sheet		Model No.:	ydride Battery		
Document Number: KLY-M-0101		Revision:2.0		Page 2 of 4	
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Ocation III Block	-1/01!1	01			
Section III – Physic					
Boiling Point	N.A.	Specific Gravity			
Vapor Pressure (mm Hg)	N.A.	Melting Point	N.A.		
Vapor Density (AIR=1)	N.A.	Evaporation Rate (Butyl Acetate=			
Solubility in Water	N.A.				
Appearance and Odor:	Cylindrical Sha	pe. odorless			
Section IV - Hazard	l Classificat	ion			
Classification	N.A.				
Section V - Reactiv	ity Data				
Stability Unstable		Conditions to Avo			
Stable	X				
Incompatibility (Materials to A	Avoid)				
Hazardous Decomposition or 1	Byproducts				
Hazardous May Occur		Conditions to Avo	id		
Polymerization Will Not Oc	cur X				
will Not Oc	cui A				
Section VI – Health					
` /	halation?	Skin?	Ingestion		
Entry Health Hazard (Acute and	M.A. d Chronic) / Toxic	N. ological information	.A.	_ <u>N</u> . <u>A</u>	
In ease of electrolyte leak			ted with electrolyte.		
In contact with electrolyt			<u>.</u>		
Inhalation of electrolyte					
Section VII - First A	id Measure	 S			
First Aid Procedures					
	urs and makes cor	ntact with skin wash	with plenty of water ii	mmediately	
		ntact with skin, wash			
If electrolyte comes into and contact a physician. If electrolytes vapors are	contact with eyes,	, wash with copious a	mounts of water for f	ifteen (15) minutes,	

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Document Number: KLY-M-0101	Revision:2.0	Page 3 of 4
Section VIII – Fire and Explosion	Hazard Data	
Flash Point (Method Used) Ignition Tem N.A. N.A		
Extinguishing Media Carbon Dioxide, Dry Chemical or Foam Extir Special Fire Fighting Procedures N.A. Unusual Fire and Explosion Hazards Do not dispose of battery in fire – may explode	nguishers	
Do not short circuit battery – may cause burns		
Section IX – Accidental Release	of Spillage -	
Steps to be Taken in case Material is Released or S	pilled	
Batteries that are leakage should be handled w	vith rubber gloves.	
Avoid direct contact with electrolyte.		
Wear protective clothing and a positive pressu	re Self-Contained B	reathing Apparatus (SCBA).
Section X = Handling and Storag	e	
Safe handling and storage advice		
Batteries should be handled and stored careful	lly to avoid short cire	cuits.
Do not store in disorderly fashion, or allow me	etal objects to be mi	xed with stored batteries.
Never disassemble a battery.		
Do not breathe call vapors or touch internal m		nds. ————————————————————————————————————
Keep batteries between -10°C and 40°C for pro	long storage.	
Section XI – Exposure Controls /	Person Prot	ection
Occupational Exposure Limits: LTEP	STEP N.A	
Respiratory Protection (Specify Type):	N.A.	
Ventilation Local Exhausts	Special	
N.A. Mechanical (General)	N.A. Other	
N.A. Protective Gloves N.A.	N.A. Eye Protection	
Other Protective Clothing or Equipment	N.A. N.A.	
Work/Hygienic Practices	<u>-</u> N.A.	

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Document Number: KLY-M-0101	Revision:2.0	Page 4 of 4
Section XII - Ecological Inform	nation	
Section XIII - Disposal Metho	 d	
Dispose of batteries according to government	regulations	
Section XIV - Transportation Corun batteries are considered to be "Dry of by the U.S. Department of Transportation (ICAO), International Air Dangerous Goods Regulations (IMDG). The battery in the transportation, loading an environmental damage, need special protection hydride, type 9) corresponding dangerous goodchecked.	cell" batteries and are unortation (DOT), Internation Transport Association d unloading, and storage on, should according to	national Civil Aviation n (IATA) and International Maritir e process, easy for person, property and (IMDG) UN3292(batteries, nickel meta)
SP117 Only regulated when transported by sea. SP 963 Nickel-metal hydride button cells or nickel equipment are not subject to other provisions All other nickel-metal hydride cells or batteric are not subject to other provisions of this concentration of less than 100 Kg gross mass. Why gross mass or more, they are not subject to oth (16) of the dangerous good list in Chapter 3.2	of this code. es shall be seccurely pack ode provided that are loaden loaded in a cargo trainer provisions of this Code	ked and protected from short circuit. They aded in a cargo transport unit in a total nsport unit in a total quantity of 100 Kg
International Civil Aviation Organization(IC Provision A123 which states: "An electrical be evolutions of heat that is not prepared so as to insulation of exposed terminals; or in the cas exposed terminals) is forbidden from transports.	attery or battery powered prevent a short circuit(e. e of equipment, by disco	device having the potential of dangerous g.in the case of batteries, by the effective
Section XV - Regulatory Infor		

Special requirement be according to the local regulations.

Section XVI - Other Information

The data in this Material Safety Date Sheet relates only to the specific material designated herein.

Section XVII – Measures for Fire Extinction

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

Fire fighters should wear self-contained breathing apparatus.

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