IDENTITY (As Used on Label and List)	Note: Blank spaces are not permitted if any item is not applicable or no information is available, the space must be marked to indicate that.

Section I – Identification

Manufacturer's Name YiYang Corun Battery Co., Ltd.	Product Name Batteries, Nickel-Metal Hydride
Address(Number, Street, City State, and ZIP Code) ChaoYang Development Zone, YiYang city, Hunan province, china	Emergency telephone Number Telephone Number for information +86) 0737-6202918
Signature of Preparer(optional)	Date of prepared and revision 1 Jan 2017

Section II –Hazard(s) Identification

Classification N.A.

Section III -Composition/Information on Ingredients

Hazardous Components:

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

Element	Lead	Cadmium	Hexavalent Chromium (Cr6+)	Mercury	Polybrominated Biphenyls (PBBs)	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 is based on total weight of NiMH battery:

Element	Ni(OH)2 (Nickel Hydroxide)	KOH Solution (Potassium)	NaOH Solution (Sodium)	Co （cobalt）	Fe （Iron）	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	7440-50-8	---

Section IV – First Aid Measures

First Aid Procedures

If electrolyte leakage occurs and makes contact with skin, wash with plenty of water immediately.

If electrolyte comes into contact with eyes, wash with copious amounts of water for fifteen (15) minutes, and contact a physician.

If electrolytes vapors are inhaled, provide fresh air and seek the attention if respiratory irritation develops.

Ventilate the contaminated area.

Section V –Fire-Fighting Measures

Flash Point (Method Used)	Ignition Temp	Flammable Limits	LEL	UEL
N.A.	N.A.	N.A.	N.A.	N.A.

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.

Extinguishing Media

Carbon Dioxide, Dry Chemical or Foam Extinguishers

Special Fire Fighting Procedures N.A.

Unusual Fire and Explosion Hazards

Do not dispose of battery in fire – may explode.

Do not short circuit battery – may cause burns.

Section VI –Accidental Release Measures

Steps to be Taken in case Material is Released or Spilled

Batteries that are leakage should be handled with rubber gloves.

Avoid direct contact with electrolyte.

Wear protective clothing and a positive pressure Self-Contained Breathing Apparatus (SCBA).

Section VII – Handling and Storage

Safe handling and storage advice

Batteries should be handled and stored carefully to avoid short circuits.

Do not store in disorderly fashion, or allow metal objects to be mixed with stored batteries.

Never disassemble a battery.

Do not breathe call vapors or touch internal material with bare hands.

Keep batteries between -10℃and 40℃for prolong storage.

Section VIII – Exposure Controls / Personal Protection

Occupational Exposure Limits:	LTEP N.A.	STEP N.A.
Respiratory Protection (Specify Type) : N.A.		
Ventilation	Local Exhausts N.A.	Special N.A.
	Mechanical (General) N.A.	Other N.A.
Protective Gloves N.A.		Eye Protection N.A.

Other Protective Clothing or Equipment N.A.

Work/Hygienic Practices N.A.

Section IX –Physical and Chemical Properties

Boiling Point	N.A.	Specific Gravity (H2O=1)	N.A.
Vapor Pressure (mm Hg)	N.A.	Melting Point	N.A.
Vapor Density (AIR=1)	N.A.	Evaporation Rate (Butyl Acetate=1)	N.A.
Solubility in Water	N.A.		
Appearance and Odor:	Cylindrical Shape. odorless		

Section X –Stability and Reactivity

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid)

Hazardous Decomposition or Byproducts

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section XI –Toxicological Information

Route(s) of Entry	Inhalation ?	Skin ?	Ingestion ?
	N.A. N.	A.	N.A.

Toxicological information / Health Hazard (Acute and Chronic)

In ease of electrolyte leakage, skin will be itchy when contaminated with electrolyte.

In contact with electrolyte can cause severe irritation and chemical burns.

Inhalation of electrolyte vapors may cause irritation of the upper respiratory tract and lungs.

Section XII - Ecological Information

N.A.

Section XIII – Disposal Considerations

Dispose of batteries according to government regulations

Section XIV - Transportation Information

Corun batteries are considered to be "Dry cell" batteries and are unregulated for purposes of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation Administration (ICAO), International Air Transport Association (IATA) and International Maritime Dangerous Goods Regulations (IMDG).
The battery in the transportation, loading and unloading, and storage process, easy for person, property and environmental damage, need special protection, should according to (IMDG) UN3496(batteries, nickel metal hydride, type 9) corresponding dangerous goods transport, piling entries on packaging carrying, isolation and checked.
SP117
Only regulated when transported by sea.
SP 963
Nickel-metal hydride but ton cells or nickel-metal hydride cells or batteries packed with or contained in equipment are not subject to other provisions of this code.
All other nickel-metal hydride cells or batteries shall be securely packed and protected from short circuit. They are not subject to other provisions of this code provided that are loaded in a cargo transport unit in a total quantity of less than 100 Kg gross mass. When loaded in a cargo transport unit in a total quantity of 100 Kg gross mass or more, they are not subject to other provisions of this Code except those of 5.4.1,5.4.3 and column (16) of the dangerous good list in Chapter 3.2.
International Civil Aviation Organization(ICAO)and International Air Transport Association(IATA),Special Provision A199 which states: "An electrical battery or battery powered device having the potential of dangerous evolutions of heat that is not prepared so as to prevent a short circuit(e.g.in the case of batteries, by the effective insulation of exposed terminals; or in the case of equipment, by disconnection of the battery and protection of exposed terminals)is forbidden from transportation."
We hereby certify that the consignment is not classified as dangerous under the current edition of the IATA. Dangerous goods regulations A199 under 58th Edition and all applicable carrier and governmental regulations.

Section XV - Regulatory Information

Special requirement be according to the local regulations.

Section XVI - Other Information

The data in this Material Safety Data Sheet relates only to the specific material designated herein.
Last revision is 2.6, and new revision 2.7prepared on 1 Jan 2017.

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