



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 – Information of Manufacturer

Manufacturer's Name
YiYang Corun Battery Co.,Ltd.

Emergency telephone Number

Address(Number, Street, City State, and ZIP Code)
ChaoYang Development Zone,
YiYang city, Hunan province, china

Telephone Number for information
+86) 0737-6202918

Date of prepared and revision
26 Aug 2010

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	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 are based on total weight of NiMH battery:

Element	Lead	Cadmium	Hexavalent Chromium (Cr6+)	Mercury	Polybrominated Biphenyls (PBBs)	Polybrominated Diphenyl Ethers (PBDEs)
Limit (mg/kg)	<40	<20	<5	<5	Nil	Nil
Element	Ni(OH)2 (Nickel Hydroxide)	30% KOH Solution (Potassium)	30% NaOH Solution (Sodium)	Non-Hazardous Materials		
Limit (wt%)	<30%	<20%	<20%	<30%		
CAS no.	12054-48-7	1310-58-3	1310-73-2	---		

High Technology Industry Park, ChaoYang Development Zone, YiYang city, Hunan province, china

Telephone : (086) 737 6202918

Website: <http://www.corun.com>

Fax : (086) 737 6202919

Manufacturer reserves the right to alter or amend the design, model and specification without prior notice.

Section III – Physical/Chemical Characteristics

Boiling Point	N.A.	Specific Gravity (H ₂ O=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 IV – Hazard Classification

Classification	N.A.
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Section V – Reactivity Data

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 VI – Health Hazard Data

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

Health Hazard (Acute and Chronic) / Toxicological information

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 VII – 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 VIII – Fire and Explosion Hazard Data

Flash Point (Method Used)	N.A.	Ignition Temp	N.A.	Flammable Limits	N.A.	LEL	N.A.	UEL	N.A.
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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 IX – Accidental Release of Spillage

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 X – 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 -30 C and 35 C for prolong storage.

Section XI – Exposure Controls / Person Protection

Occupational Exposure Limits:	LTEP	STEP
	N.A.	N.A.
Respiratory Protection (Specify Type) :	N.A.	
Ventilation	Local Exhausts	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.
Protective Gloves	N.A.	Eye Protection
		N.A.
Other Protective Clothing or Equipment	N.A.	
Work/Hygienic Practices	N.A.	



Section XII - Ecological Information

N.A.

Section XIII - Disposal Method

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 only DOT requirement for shipping these batteries is special provision 130 which states: "Batteries, dry are not subject to the requirements of this subchapter only when they are offered for transportation in a manner that prevents the dangerous evolution of heat (For example, by the effective insulation of exposed terminals). The only requirements for shipping these batteries by ICAO and IATA is Special Provision A123 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." The international Maritime Dangerous Goods Code (IMDG) regulate them for ocean transportation under Special Provision 304 which says : Batteries, dry, containing corrosive electrolyte which will not flow out of the battery if the battery case is cracked are not subject to the provision of this Code provided the batteries are securely packed and protected against short-circuits. Example of such batteries are: alkali-manganese, zinc-carbon, silver oxide, nickel metal hydride and nickel-cadmium batteries which are non-dangerous goods. Such batteries have been packed in inner packaging in such a manner as to effectively prevent short circuit and movement that could lead to short circuit.

Section XV - Regulatory Information

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.
