

SAFETY DATA SHEET

Legrand has assembled this battery without modifying it and in accordance with the battery manufacturer's instructions for the following finished products:

LG-062632
UR-130009
UR-111912
LG- 660975
UR-130029

Edited by F. DESPLANCHES	Date: 27/11/2023	Revision : 1
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JYH Technology Co., Ltd

JYH-MSDS-02/2022

Material Safety Data Sheet For NiMH Batteries

Issue Date: January 5, 2022

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

Section I - Information of Manufacturer

Manufacturer's Name	Emergency Telephone Number
JYH Technology Co., Ltd	+86-750-3808313
Address : No. 12, Bangmin Road,	Telephone Number for information
Jianghai District, Jiangmen City, Guangdong, P.R. China.	+86-750-3808313

Section 1- Hazardous Ingredients/ Identity Information

Hazardous Components:

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

Element	Lead	Cadmium	Hexavalent	Mercury	Polybrominated	Polybrominated
			Chromium(Cr6+)		Biphenyls(PBBs)	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 Mercury		Polybrominated		Pol	Polybromi-nated	
				Chromium(Cr6+)		Biphenyls(PBBs)		Dip	henyls	
								Eth	ers(PB-DEs)	
Limit(mg/kg)	<40	<20		<5	<5	Nil	Nil			
Element	Ni(OH)2(N	Nickel 30%		KOH 30%NaOH			Non-Hazardo	us		
	Hydroxide	<u>:</u>)	Sol	ution(Potassium	Solution(So	dium	Materials			
			Hyd	droxide)	Hydroxide)					
Limit(mg/kg)	<30%	·	<20%		<20%		<30%			
CAS no.	12054-48	7 1310-58-3		1310-73-2						

Section 2- Physical/ Chemical Characteristics

Specific Gravity (H ₂ O=1)	
N.A.	
Melting Point	
N.A.	
Evaporation Rate (Butyl Acetate)	
N.A.	

Solubility Water

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N.A.						
Appearance and Odor						
	Cylindrical Shape, odorless					
Section 3- Hazard Classifica	ation					
Classification						
N.A.						
Section 4- Reactivity Data						
Stability Stability	Unstable		Condi	itions to Avoid		
Stability	Stable	X	Cond	dons to Avoid		
Incompatibility(Materials to Av		^				
Hazardous Decomposition or						
Hazardous Polymerization	May Occur		Condi	itions to Avoid		
	Will Not Occur	X				
			<u> </u>			
Section 5- Health Hazard Da	ita					
Route(s) of Inhalatio	n Skin	Inges	tion			
Entry	N.A.	N.A.	N.A.			
Health Hazard (Acute and Ch	ronic) / Toxicological info	ormation				
In case of electrolyte le	akage, skin will be itchy	when contaminated w	ith electrolyte.			
In contact with electroly	yte can cause severe irri	tation and chemical bu	rns.			
Inhalation of electrolyte	vapors may cause irrita	ation of the upper respi	ratory tract and lung	S		
Section 6- First Aid Measure	es					
First Aid Procedures						
If electrolyte leakage oc	curs and makes contact	with skin, wash with p	lenty of water imme	diately.		
If electrolyte comes into	contact with eyes, wa	ash with copious amo	unts of water for fif	teen (15) minutes, and		
contact a physician.	contact a physician.					
If electrolyte vapors are	If electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops.					
Ventilate the contaminat	ed area.					
Section 7- Fire and explosion	n Hazard Data					
Flash Point (Method Used)	Ignition Temp	Flammable Limits	LEL	UEL		
N.A.	N.A.	N.A.	N.A.	N.A.		
Extinguishing Media						
Carbon Dioxide, Dry Chemical or Foam extinguishers can be used for battery BUT water extinguisher is not						
suitable.						
Special Fire Fighting Procedures						
N.A						
Unusual Fire and Explosion P	rocedures					

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Do not dispose of battery in fire -	may explode		

Do not short-circuit battery - may cause burns.

Section 8- Accidental Release or 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 positive pressure Self-Contained Breathing Apparatus(SCBA).

Section 9- 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 cell vapors or touch internal material with bare hands.

Keep batteries between -20°C and 35°C for prolong storage. When the cells are closed to fully charged, the storage temperature should be between -20°C and 30°C and should be controlled at 10-20°C during transportation and packed with efficient air ventilation.

Section 10- Exposure Controls / Person Protection

Occupational Exposure limits: LTEP	STEP	
N.A.	N.A.	
Parallestani Protestian (Consilie Time)		

Respiratory Protection (Specify Type)

N.A.

Ventilation	Local Exhausts	Special
	N.A.	N.A.
	Mechanical (General)	Other
	N.A.	N.A.
Protective Gloves		Eye Protection
N.A.		N.A.
Other Besterdies d	athle a see Equipment	

Other Protective clothing or Equipment

NΑ

Work / Hygienic Practices

N.A.

Section 11- Ecological Information

N.A.

Section 12- Disposal Method

Dispose of batteries according to government regulations.

Section 13- Transportation Information

JYH batteries are exempt from dangerous goods. It is considered non-dangerous goods by the International Civil

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Aviation Organization (ICAO), the International Air Transport Association (IATA) DGR 63th IATA Special Provisions A199, S.P.A199 The UN number UN 3496 is only applicable in sea transport. Nickel-metal hydride batteries or nickel-metal hydride battery-powered devices equipment or vehicles having the potential of a dangerous evolution of heat are not subject to these Regulations provided they are prepared for transport so as to prevent

- (a) a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or, the case of equipment by disconnection of the battery and protection of exposed terminals); and
- (b) unintentional activation.

The words "Not Restricted" and the Special Provision number must be included in the description of the substance on the Air Waybill as required by 8.2.6 when an Air Waybill is issued. Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport.

According to International Martine Dangerous Goods Regulations (IMDG) (40-20) Edition special provisions 963, the Ni-MH button cell Ni-MH cells or batteries install in (or packed with) equipments, and the battery in the carriage of goods by a single component does not exceed the total weight of 100 kg, does not apply to any other provisions of this rule of IMDG.

Section 14- Regulatory Information

Special requirement be according to the local regulatories.

Section15- Other Information

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

Section 16- Measures for fire extinction

In case of fire, it is permissible to use Carbon Dioxide, Dry Chemical or Foam extinguishers on the batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

Fire fighters should wear self-contained breathing apparatus.