

# MA® MOTOMA POWER CO., LTD.

Material Safety Data Sheet

model NO. : Nickel met	tal Hydride Batterie:
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IDENTITY (As Used on Label and L	Note: Blank spaces are not permitted if any item is notapplicable or no information is available, the space must be marked to indicate that.
Section I-Information	of Manufacturer
Manufacturer's Name  Motoma Power (	Emergency Telephone Number
Add: 12/F,Shenmao Bidg, Xinwen Rd, Fut	
Shenzhen, China	86-755-82949246
	Date of prepared and revision Nov.11.2010
	Signature of Preparer (optional)
Section II-Hazardous Hazardous Components:	Ingredients / Identity Information
	Approximate W of total weight
Description:	Approximate % of total weight
Ni(OH)2 Nickel Hydroxide	17.40 W.W
<u> </u>	17. 48 Wt%
30% KOH Solution (Potassium Hydroxide)	8.30 Wt%
Mercury	<5 PPM
Lead	Ni1
Cadmium	Ni1
Castion III-Dhysias /	Chamina I Chamantaniation
Section III-Physical / Boiling Point	Chemical Characteristics Specific Gravity <sub>2</sub> (H 0=1)
N. A.	N. A.
Vapor Pressure (mm Hg) N.A.	Melting Point N.A.
Vapor Density (AIR=1)	Evaporation Rate (Butyl Acetate)
N.A. Solubility in Water	N. A.
N. A.	
Appearance and Odor	Prismatic Shape, odorless
Section IV-Hazard Cla	ssification
Classification	
N. A.	



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Section \	V-Reactivit	y Data				
Stability	Unstable		Conditions to	Avoid		
	Stable	х				
Incompatibili	ity (Materials t	o Avoid)	l			
Hazardous Dec	composition or B	yproducts				
Hazardous	May Occur		Conditions to	Avoid		
Polymerization		_				
	Will Not Occur	X				
	VI-Health H	lazard Data	)			
Route(s) of		Inhalation?		Skin?	Ingestion?	
Entry			N.A.		N.A.	N.A.
Health Haz	ard (Acute a	nd Chronic)	/ Toxiclogi	cal informatio	n	
In cas	se of electrolyt	e leakage,skin	will be itchy	when contaminated	with electrolyte.	
In cor	ntact with elect	rolyte can caus	e severe irrit	ation and chemica	l burns.	
Inhala	ation of electro	lyte vapors may	cause irritat	ion of the upper	respiratory tract and lu	ngs.
	/II-First A	id Measure	<u> </u>			
First Aid	Procedures					
If ele	ectrolyte leakag	e occurs and ma	kes contact wi	th skin, wash wit	n plenty of water immedia	ntely.
If ele	ctrolyte comes in	to contact with	eyes, wash wit	h copious amounts	of water for fifteen (15)	minutes, and contact aphysician
If ele	ectrolyte vapors	are inhaled, p	rovide fresh a	ir and seek medic	al attention if respira	tory irritation develops. Vent
ilate	the Contaminate	d area.				
Section \	VIII-Fire a	nd Explosi	on Hazard	Data		
Flash Point (	(Method Used)	Ignition Temp.	Flamm	able Limits	LEL	UEL
	I.A.	N.A.		N.A.	N.A.	N.A.
Extinguishing	y Media					
	n Dioxide, Dry C		extinguishers			
Special Fire N.A.	Fighting Proced	ures				
Unusual Fire and Explosion Hazards						
	dispose of bat		may explode.			
	short-circuit					



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Section IX-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 p	rotective clothing and a positive press	sure Self-Contained Breathing Apparatus (SCBA).		
Section X-	Handling and Storage			
Safe handlin	Safe handling and storage advice			
Batte	eries should be handled and stored care	efully to avoid short circuits.		
Do no	ot store in disorderly fashion, or allo	ow metal objects to be mixed with stored batteries.		
Never	disassemble a battery.			
Do no	t breathe cell vapors or touch in ter	nal material with bare hands.		
Кеер	batteries between -30°C and 35°C for p	rolong storage.		
Section XI	-Exposure Controls / Pers	on Protection		
Occupational Ex	posure Limits: LTEP	STEP		
	N.A.	N.A.		
Respiratory Pro	tection (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 Protectiv	re Clothing or E° uipment			
	N.A.			
Work / Hygienia	Work / Hygienic Practices			
	N.A.			
Section XII-Ecological Information				
N.A.				
Section XIII-Disposal Method				
Dispose of batteries according to government regulations.				



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### **Section XIV-Transportation Information**

Unitech batteries are considered to be "Dry" batteries and are unregulated for purposes of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation Admini stration (ICAO), International Air Transport Association (IATA) and International Maritime Dangerous Goods Regulations (IMDG). The only IMDG requirement for shipping these batteries is special provision 304 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). As of 1/1/97 IATA requires that batteries being transported by air must be protected from short-circuiting and protected from movement that could lead to short-circuiting.

All of batteries being transported by air, by sea, or by truck shall be protected from short circuit and protected from movement that could result in short circuit.

### Section XV-Regulatory Information

Special requirement be according to the local regulatories.

#### Section XVI-Other Information

The data in this Material Safety Data 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.