# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

078352867

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078560532 078865772

# Material Safety Data Sheet NI-MH BATTERY

# Document Number :

Revision: 00

Identity(As U	sed on Lebel and List)		Part Number :			
			It is available all the products of Monair			
	information of Ma	nufacturer	F-1			
Manu/acturer	's Name McNair Technology	Co., Lld.,				
Address(Num	ber, Street , City, Stat	and ZIP Code)				
Dayouyuan In	iduatrial estate, Dalang	town,Dongguan city,	Guangdong province , P,R,China.,Zip:523796			
		ilente/identity info	rmation			
Hazardous C	omponente :					
Weight %		Component-(CAS Registry No.)				
30-35		Hydrogen ebsorbing alloy (not applicable)				
20-26		(NI-Co-Zn) hydroxide (not applicable)				
1-5		Sodium hydr	oxide (001310-73-2)			
1-5		Potessium hy	yroxide (001310-58-3)			
1-5		Lithium hydroxide (001310-85-2)				
20-25		Steel Can (not applicable)				
1-5		Paper (not applicable)				
1-5		Pisatic (not applicable)				
Weight % liste	ed is based on approxi	mate persent of the av	verage weight of the battery (24 grams)			
The compone	nts in this section may	only represent a heze	ard if the integrity of the battery is compromised.			
Section III .	Physical / Chemi	cal Characteristics				
Form		1 - 1 - 1 - 1 - 1	Specific Gravity (H20 = 1)			
Solid			Not applicable			
Boiling Paint			Meiting Point			
Not applicable			Not applicable			
Vapor Pressure(mm Hg)			Evaporation Rate			
Negligible			(Buty1 Acetate = 1) Not applicable			
Vapor Density (AIR = 1)			PH			
Not applicable			Not applicable			
Solubility in W			Appearance and Odor			
nsoluble	*		Not applicable color and odorless.			
	Hazard Classifica	tion				
Classification	, and a dissertion	-				
and the second second	k and/or explode if one	ened . Short circuited	connected improperly, or exposed to Fire or high temperatures			
			story tract irritation damaged batteries may cause skin and eye burns.			
	Reactivity Data	,	, , , , , , , , , , , , , , , , , , , ,			
3011011 4 .	Unstable	Conditions to Avoid :				
9	( )	Stable under normal				
	1	At the positive electro	The state of the s			
		THE POSITIVE STROUT	charge			
Stability Yes = ( )		NI(OH) <sub>2</sub> +OH: discharge NIOOH+H <sub>2</sub> O+e				
		At the negative electr	ode:			
100-1	Stable (✓)	Man Ares	charge .			
	1.1	M+H <sub>1</sub> O+e discharge				
		This gives an overall				
			charge			

			high the material may res	sonably come into	contect,	
Hazerdous O	ecomposition or By	products				
Hezardous Resotions	May Occur	Conditions to Avoid:  The components in this section may only represent a hezard if the integrity of the battery is compromised.				
Yes = ( )	Will Not Occur					
Section VI	- Health Hezard	Date	*			
Route(e) of Entry Yes = (X)		Inheletion? Yes	\$kin7 Yes	Ingestion?	I'v	
		c)/ Toxicological inform	nation In the battery case , the po	tential for exposur	re to the components of	
the bettery is	used as directed . H	lowever, technical or e	electrical abuse of the bette	ery may result in th	ne release of the battery conter	
Inhalation:Ha	rmful if inhaled,May	cause irritation to the	mucous memberanes and	upper respiratory	tract.	
Eyes:contact	with electrolyte(liqui	d) causes burns.Vapo	ra or furnes may cause Irrit	tation.contact with	metal fragment may cause	
burns or mec	hanical injury.					
Skin:contact	with electrolyte(liquid	anta eseuso (t	ot with metal fragments me	sy cause burns or	mechanical injury.	
Hermful .If eb	sorbed through skin	. Vapore or fumes may	y cause irritation,			
Section VII	- First Ald Mess	ures		1 8 3		
First Ald Prod	edures					
Note; The roo	tine handling and u	se of Intact, non-dama	ged betterles is not expect	ed to result in situ	ations that require first-aid	
messures. If	battery is damaged	due to opening, outling	, overheating.improper inc	tallation.exposure	to fire or high .	
lemperetures	or recharging ,batte	ry contents may be re	leased.			
Inhalation:If v	apors or furnes from	vented or leaking bat	tery are irritating to respira	tory tract, move to	fresh sir, Trest	
symptometic	ally. Get medical ett	ention if symptoms per	relat.			
Eyes; in case	of contact with batte	ery contents (liquid or i	metal),immediately flush w	ith plenty of water	for at least 16 minutes.	
Get medical a	ittention immediately	у.				
skin: In casa	of contect with beits	ry contents(liquid or m	etal), immediately remove	metal fragments	and flush skin with plenty	
of water for el	least 15 minutes w	hile removing contemi	nated clothing and shoes	Get medical attent	tion immediately.wash	
conteminated	clothing before reus	se. Destroy or thoroug	hly clean contaminated she	060.		
Ingestion; Cal	li a physiolan or pole	on control center imm	ediately for any actual or a	uspected Ingestion	n. All batteries may be	
harmful If awa	llowed . Do not Indu	ce vomiting . Batteries	may lodge in the throat or	digestive tract an	d fregment . If battery	
was leaking o	r chewed. Rinse mo	uth thoroughly with we	iter.			
Section VIII	- Fire and Explo	sion Hazard Data				
Flash Point (A	Method Used)	ignition Temp.	Flammable Limits	LEL	UEL	
Extinguishing	Medis			-		
Use appropris	ate agent for adjacer	nt fire,				
Special Fire F	ighting Procedures	1				
Fire or excess	elve heel may produ	ce hexardous decomp	osition products . Wear se	If-contained breat	hing apparatus and	
protective dol	thing.				National Automatical States	
Unusual Fire	and Explosion Haza	rds				
Fire or high te	emperature may cau	se bettery to vent and/	or explode or lesk hezerdo	oue vapors. Dame	ged or opened batteries	
can result in r	apid heating and the	release of hazardous	vepors.			
Section IX	- Accidental Reis	ase or Spillage				

Not applicable.

#### Section X - Handling and Storage

Sale Handing and storage advice

Personal Precautionary Messure: If battery has been damaged. Do not breathe furnes or vapore . Do not get battery contents in eyes, on skin, on clothing, wash thoroughly after handling .

Prevention of fire and Explosion: Do Not disassemble .Do not short circuit, Keep away from heat and flame. Do Not Recharge

Charging may result in electrolyte leakage and for explosion. Avoid the use of old and new batteries or batteries of varying sizes and types in the same battery assembly. The batteries electrical characteristics and capabilities may vary and damage may result to the batteries or electrical equipment. Avoid encasing in airtight compartments. Fishmable hydrogen gas, normally generated, can form explosive mixtures. Provisions for venting must be provided. Avoid reversing polarity within a device or battery assembly. To do so may cause leakage and for explosion.

Storage; Store in cool, dry piece. Protect from direct sunlight. Storage above 70°C may affect product quality. Do not store in a manner that allows terminals to short circuit. Extended short circuiting creates high temperatures in the bettery. High temperatures can cause leakage and for explosion. Short circuiting may reduce battery service life.

## Section XI - Exposure Controls / Personal Protection

Occupational Exposure Limits:

LTEP

STEP

ACGIH Threshold Limit Value (TLV)

Respiratory Protection (Specify Type)

None should be need .

Ventilation	Local Exhausts	Special Not applicable .		
	Mechanical (General)	Other Not applicable .		
Protective Gloves : When handling a demaged battery.		Eye Protection  When handling a damaged battery, Wear safety glasses.		

Other Protective Clothing or Equipment

Supplemental ventilation may be needed in special circumstances to control fumes/vapors to an acceptable level.

Work / Hygienic Practices

Not applicable

#### Section XII - Ecological Information

This material has not been tested for environmental effects.

## Section XIII - Disposal Method

DO NOT INCINERATE or expose to fire. Discharge, treatment, or disposal may be subject to national .state, or local laws.

## Section XIV -TRANSPORTATION INFORMATION

Batteries are considered to be "dry call" 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 dengarous Gods regulations (IMDG). The only DOT repulrement for shipthese 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). 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.

### Section XV | Other Information

the data in this material sefety data sheet relates to the specific material designated herein

#### Section XVI - Measures for fire .extinction

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

fire fighters should wear self-contained breathing apparatus.

