Product Safety Data Sheet

This product (a battery) is an "Article" pursuant to 29 CFR 1910.1200 and, as such, is not subject to the OSHA Hazard Communication Standard requirements for preparation of a Material Safety Data Sheets, (MSDS). This Product Safety Data Sheet is prepared only to provide information to our customers.

1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product name	Nickel Metal Hydride Battery (Module)
1.2	Applicable models	EV-MH type
		EV-MP095R15A (EV-95)
		EV-MP6R5R01 (GEN I)
		EV-MP6R5R02 (GEN II)
		EV-MP6R5R03 (GEN 2.5 8cells module type)
		EV-MP6R5R27 (GEN 2.5 12cells module type)
		EV-MP6R5R47 (GEN 2.5L 12cells module type)
1.3	Product use	Hybrid Vehicle Battery
1.4	Name of manufacturer	Primearth EV Energy Co., Ltd.
1.5	Address of manufacturer	20,Okasaki,Kosai-City,Shizuoka, 431-0422 Japan
1.6	Phone number of manufacturer	+81-53-577-3592 (Japan)
1.7	Post in charge	Enginnering Dept. 1
1.8	Name of person in charge	Hideo Kaiya
1.9	Issue number	P0298
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2. HAZARD IDENTIFICATION

This product is not dangerous as long as it is used for prescribed purposes and in accordance with its designated usage. As the product is a storage device for electricity, it may give the user an electric shock. It has no adverse effect on human health or the environment unless the pack and cell casings are breached.

2.1	Physical and chemical	This product does not constitute a physical and chemical hazard as long as it is
	hazard	used for prescribed purposes and in accordance with its designated usage.
		The alkaline electrolyte or materials in the battery may be dangerous if they leak
		out of the casing due to dismantling or breaching of the battery.
		This product may cause electric shock, fire, or injury if it is used for purposes
		other than those prescribed or without following the designated usage.
2.2	Hazard to human health	This product is not hazardous to human health in normal use.
		However, if the product dismantle or is breached, the alkaline electrolyte or
		materials that may leak out of the outer casing may adversely affect human health.
		This product contains both nickel compounds and cobalt, which are classified as
		carcinogens by IARC and NTP.
2.3	Hazard to environment	This product is not hazardous to the environment as long as it is used for
		prescribed purposes and in accordance with its designated usage.
		However, the contents of the product may have an adverse effect on the
		environment in the event of their leakage from the casing due to dismantling or

3. COMPOSITION & INGREDIENT INFORMATION

Chemical name	Chemical symbol	CAS. No.	Exposure limits in air	
Chemical name			ACGIH	OSHA
Positive electrode, composed of:				
•Nickel hydroxide	Ni(OH)2	12054-48-7	0.2mg/m3	1mg/m3
•Nickel	Ni	7440-02-0	0.2mg/m3	1mg/m3
•Cobalt	Co	7440-48-4	0.02mg/m3	0.1mg/m3
Negative electrode, composed of:				
 Hydrogen absorbing alloy 	*1			
•Iron	Fe	7439-89-6	NA	NA
Alkaline electrolyte	*2			

*1: Main contents contained in hydrogen abosorbing alloy

Nickel(Ni)-CAS#7440-02-0, Cobalt(Co)-CAS#7440-48-4, Manganese (Mn)-CAS#7439-96-5,

Aluminum (Al)-CAS#7429-90-5, Rare earths [Lanthanum (La)-CAS#7439-91-0, Cerium (Ce)-CAS#7440-45-1, Neodymium (Nd)-CSA#7440-00-8, Proseodymium (Pr)-CAS#7440-10-0]

*2: Main contents contained in alkaline electrolyte

Pottassium hydroxide (KOH)-CAS#1310-58-3, Sodium hydroxide (NaOH)-CAS#1310-73-2, Lithium hydroxide (LiOH)-CAS#1310-65-2

4. FIRST AID MEASURES

In the event of the leakage of electrolyte or gassing of the battery, take the appropriate first aid measures from the following.

4.1	Eye contact	Contact may cause corneal injury and blindness.
		Wash eyes with large amounts of running water for at least 15 minutes.
		Seek medical treatment immediately.
		If appropriate actions are not taken, eye disorders may result.
4.2	Skin contact	Wash the contact area with plenty of water.
		Seek medical treatment immediately.
		Clothing, shoes, and socks, etc. which have come into contact with alkaline
		electrolyte should be taken off immediately.
		If appropriate actions are not taken, skin inflammation may occur.
4.3	Inhalation	Move the exposed person to fresh air area immediately.
		Cover up the affected person with a blanket.
		Seek medical treatment immediately.
4.4	Ingestion	Do not induce vomiting .
		Seek medical treatment immediately.

5. FIREFIGHTING MEASURES

In the event of a battery fire, take the following measures.

5.1	Extinguishing media and method	 (1) Use a dry powder acrylonitrile butadiene styrene (ABS) fire extinguisher for fire-fighting. (2)Extinguishing a fire with a large amount of water may be an effective method. However, this should be considered as a supplementary means If there are no readily available large amounts of water, use dry sand instead; as the application of only a small amount of water may temporarily act as an accelerant and affect the fire adversely while the hydrogen storage alloy is burning.
5.2	Exposure controls and personal protection for fire-fighting	Use air-breathing apparatus as noxious fumes may be produced.
5.3	Fire spread prevention	(1) In the case of fire, remove surrounding inflammables immediately.(2) In the case of fire in peripheral devices, move the battery to a safe place immediately.

6. ACCIDENTAL RELEASE MEASURES

Take the following measures if the alkaline electrolyte has leaked out of the battery.

6.1	Wipe up the alkaline electrolyte with a cloth. Dispose of the cloth used to wipe
	up the electrolyte in accordance with applicable laws and regulations.

7. HANDLING & STORAGE INFORMATION

Observe the following cautions and prohibited items. Handle the battery carefully.

Obsci	Observe the following eathfolis and promotice tiens. Transfer the battery eaterfully.		
7.1	Prohibited items	(1) Short-circuiting	
		Short-circuiting may cause burn injury due to ignition or heating effect.	
		(2) Dismantle or modification	
		Alkaline electrolyte leaks when the battery (cell) is disassembled.	
		(3) Overcharging or over-discharging	
		Oxygen or hydrogen may be produced when the battery is overcharged or	
		over-discharged.	
		(4) Use in an airtight container	
		The container may explode due to the gas produced from the battery.	

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7.2	Cautions	(1) Do not stack a battery on another battery.
		(2) Do not store batteries on electrically conductive surfaces such as metals.
		(3) Wear protective glasses and rubber gloves while handling batteries.
8. EX	POSURE CONTROLS	& PERSONAL PROTECTION
Take t	the following measures in the	e event of leakage of the alkaline electrolyte or alkaline mixed gas from the battery.
8.1	Facilities	(1) Store the product in a depository with local exhaust systems for ventilation.
		(2) Install an exhaust system or exhaust port when the product is used in a
0.2		container.
8.2	Protective equipment	Wear protective glasses, protective gloves, and simple filter mask.
9. PH	YSICAL & CHEMICA	L PROPERTIES
9.1	Physical state	Solid
9.2	Order	No order
9.3	pН	Not applicable (ELECTROLYTE : >12)
9.4	Freezing point	Not applicable
9.5	Boiling point	Not applicable (ELECTROLYTE: 100°C; Water)
9.6	Evaporation rate	Not applicable
9.7	Vapor pressure	Not applicable
9.8	Vapor density	Not applicable
9.9	Solubility (Water)	Not applicable (Electrolyte is soluble.)
10. S	TABILITY & REACTI	
		is used for prescribed purposes and in accordance with its designated usage.
		rging/over-discharging, and long-term storage in a high-temperature environment
	ead to the ignition or explosion	
10.1	Possible causes of fire	Sparks due to short-circuit.
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14. N	OTES IN TRANSPORT	FATION		
Refer to "15. REGULATORY INFORMATION" for applicable laws and regulations.				
14.1	Label of contents	The indication of surface of the casing are not subjected any regurations. Refer to "14. REGULATORY INFORMATION" for applicable laws and regulations.		
14.2	No short-circuit	The battery terminals should be designed so that external short-circuiting can be avoided. Make sure the batteries are not short-circuited during the packaging process.		
14.3	No damage and overturn	Use sufficiently strong materials for packaging boxes so that the product is not damaged due to vibration, shocks, falls, stacking, and so on. Pack the product so that the battery does not fall sideways, and is not inverted during transportation.		
14.4	Protection from rain water	Avoid contact with rain or other water during storage and transportation.		
14.5	Protection from fire and high temperatures	Do not place the product close to fire during storage and transportation. Avoid storage in a high-temperature environment. Example: Avoid leaving batteries for disposal in a parked vehicle under the scorching sun. Take sufficient care to avoid prolonged exposure to high temperature.		
15. R	EGULATORY INFORM	MATION		
15.1	Hazardous materials of transportation	(1) United Nations (Transport of Dangerous Goods) •UN Number 3496 Classes 9 •Special Provision 117 Subjected to these Regulations only when transport by sea. (2) International Air Transport Association (IATA) •Not Registrated		
	New Regurations: United Nations, IMDG-Code Enforcement on Jan. 1, 2012	 Special Provision A123 This entry applies to Batteries, electric storage, not otherwise listed in Subsection 4.2 - List of Dangerous Goods. Examples of such batteries are: alkali-manganese, zinc-carbon, nickel-metal hydride and nickel-cadmium batteries. Any electrical battery or battery powered device, equipment or vehicle having the potential of a dangerous evolution of heat must be 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, in the case of equipment, by disconnection of the battery and protection of exposed terminals); and (b) accidental 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. (3) International Maritime Dangerous Goods Code (IMDG-Code) UN Number 3496 Classes 9 Special Provision 117 Only regulated when transported by sea. 963 Nickel-metal hydride button cells or nickel-metal hydride cells or batteries packed with or contained in equipment are not subjected to the provisions of this code. All other nickel-metal hydride cells or batteries shall be securely packed and protected from short circuit. They are subjected to other provisions of this Code provided that they 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 less than 100 kg gross mass or more, they are not subjected to other provisions of this Code except those of 5.4.1, 5.4.3 and 		

		(4) US DOT(Department of Transportation)Title 49 CFR Parts 100-185
		Subpart B—Table of Hazardous Materials and Special Provisions
		§ 172.101 Purpose and use of hazardous materials table.
		Hazardous materials descriptions and proper shipping names
		* Batteries, nickel-metal hydride see Batteries, dry, sealed, n.o.s. for
		nickel-metal hydride batteries transported by modes other than vessel
		* Batteries, dry, sealed, n.o.s.
		§ 172.102 Special provisions.
		* Transport by modes other than vessel : Special provision 130
		* Transport by vessel : Special provision 340
		(5) Japan MLIT (Ministry of Land, Infrastructure, Transport and Tourism)
		Bulletin 1530 Notice 272 (Dec.22,2010)
		•UN Number 3496 Classes 9
		•Dangerous Goods List Coluum 6(5) SP963
		1 Shall be securely packed and protected from short circuit.
		2 Tag plate or the name of goods are not required to be displayed.
		Dangerous Goods List Coluum 10 SP963
		1 Nickel-metal hydride button cells or nickel-metal hydride cells or batteries
		packed with or contained in equipment are not subjected to the provisions
		of this notice.
		2 All other nickel-metal hydride cells or batteries shall be securely packed
		and protected from short circuit. They are subjected to other provisions
		of this notice provided that they are loaded in a cargo transport unit in a
		total quantity of less than 100 kg gross mass.
16. O'	THER INFORMATION	V
16.1	Cautions	(1) Cautions and prohibited items in this Data Sheet relate to only normal use.
		Take appropriate safety measures suited for the environment when the product
		is used for special purposes.
		(2) This Data Sheet provides only the information of the product, and is not to be
		taken as a warranty.
		(3)It is intended for use by persons with technical skills and at their own discretion
		and risk.
		(4)The user is responsible for determining that any usage of the data or
		information in this Data Sheet is in accordance with associated federal, state,
		and local laws and regulations.
16.2	Date of creation/revision	April 5, 2012
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