# **GP** Batteries

### Material Safety Data Sheet For NiMH Batteries

| Document Number: RRS0541   |               |         | Revision: 02  |                 |                    |                |                    | Page 1of4                       |  |
|--|---------------|---------|---|-----------------|--------------------|----------------|--------------------|---------------------------------|--|
| IDENTITY (As Used on Label and List)<br>Nickel Metal Hydride Battery                         |               |         | 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 - In   |               |         |   |                 |                    |                |                    |                                 |  |
| danufacturer's Name  |               |         |   | cy Telephone    | Numbe              | er .           |                    |                                 |  |
|  | mational Ltd. | A 71D   | Tolenhou  | ia Numbar fai   | inform             | ation          |                    |                                 |  |
| Address (Number, Street, City State, and ZIP<br>Code)<br>8/F GP Building, 30 Kwai Wing Road, |               |         | Telephone Number for information 852-2484-3333  |                 |                    |                |                    |                                 |  |
| (wai Chung, N.T. H.I   | ς.            |         | Date of prepared and revision 7th Mar 2008  |                 |                    |                |                    |                                 |  |
|  |               |         | Signatur  | e of Preparer ( | option             | al)            |                    |                                 |  |
| Postion II U   | azardana l    |         | lianta /  | lala atitu.     |                    |                |                    |                                 |  |
| Section II - Ha<br>Hazardous Compo   |               | ngrea   | ients /   | identity        | mor                | mation         |                    |                                 |  |
| *  |               |         |   |                 |                    |                |                    |                                 |  |
| Hazardous Comp   | onents:       |         |   |                 |                    |                |                    |                                 |  |
| A) The content   | of elements   | are ba  | sed on l  | homogene        | ous r              | naterials leve | el of NiMH battery | r,                              |  |
| Element  | Lead          | Cadmi   |   | Hexavalent      |                    | Mercury        | Polybrominated     | Polybrominated Diphenyls Ethers |  |
|  | 1             |         |   | Chromium (      | (Cr''')            | '              | Biphenyls (PBBs)   | (PBDEs)                         |  |
| Limit (mg/kg)  | <1000         | <100    |   | <1000           |                    | <1000          | <1000              | <1000                           |  |
| CAS no.  | 7439-92-1     | 7440-4  | 13-9  | 18540-29        | -9                 | 7439-97-6      | 59536-65-1         |                                 |  |
| B) The content   | of elements   | are ba  | sed on t  | otal weigh      | it of N            | NMH battery:   |                    | ,                               |  |
| Element  | Lead          | Cadmi   | mium Hexavalent   |                 |                    | Mercury        | Polyprominated     | Polybrominated Diphenyl Ethers  |  |
|  |               |         |   | Chromium (      | Cr <sup>5</sup> ') | ' '            | Biphenyls (PBBs)   | (PBDEs)                         |  |
| Limit (mg/kg)  | <40           | <20     |   | <5              |                    | <5             | Nil                | Nil                             |  |
| Element  | Ni(QH)2 (Nich | kel     | 30% KO  | -l Solution     | 30% N              | NaOH Solution  |                    |                                 |  |
|  | Hydroxide)    |         | (Potassiu   | m Hydroxide)    | (Sodie             | ım Hyroxide)   |                    |                                 |  |
| Limit (wt%)  | <30%          |         | <20%  |                 | <20%               |                |                    |                                 |  |
| CAS no.  | 12054-48-7    |         | 1310-58-3   |                 |                    | -73-2          |                    |                                 |  |
| Section III - Ph   | ysical / Che  |         |   |                 |                    |                |                    |                                 |  |
| Boiling Point Specif<br>N.A.   |               |         | cific Gravity (H <sub>2</sub> O+1)  |                 |                    |                |                    |                                 |  |
| Japor Pressure (mm Hg) Meltir  |               |         | N.A.<br>Iting Point   |                 |                    |                |                    |                                 |  |
| N.A.  <br>Vapor Density (AIR=1)   Evapor   |               |         | N.A. sporation Rute (Butyl Acetate)   |                 |                    |                |                    |                                 |  |
| N.A  |               | Evapo   | poration Rate (Butyl Acctate) N.A.  |                 |                    |                |                    |                                 |  |
| olubility in Water<br>N A  |               |         |   |                 |                    |                |                    |                                 |  |
| ppearance and Odor   |               |         |   |                 |                    |                |                    |                                 |  |
| · · · · · · · · · · · · · · · · · · ·  |               |         |   | Cylind          | rical Sh           | ape, odorless  |                    |                                 |  |
| S 45 45 4 - 5  | Jozofa Cla    | occific | ation   |                 |                    |                |                    |                                 |  |
| ነፀር፤፤በበ ፤V ፣   |               |         |   |                 |                    |                |                    |                                 |  |
| Section IV F   | Tazaiu Cie    | 2551110 | auon  |                 |                    | <del></del>    |                    |                                 |  |

Member Gold Peak Group

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

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### Material Safety Data Sheet For NiMH Batteries

| Section V — Reactivity Data Stability   Distable   Conditions to Avoid   |   |  |                                    |                     | umber: RRS0         |                    |
|--|---|--|------------------------------------|---------------------|---------------------|--------------------|
| Stability  Stabile  X  Incompatibility (Materials to Avoid)  Hazardous Decomposition or Byproducts  Hazardous Decomposition or Byproducts  Hazardous Polymerization  Will Not Occur  Will Not Occur  X  Section VI - Health Hazard Data  Route(s) of Inhalation? Skin? Ingestion?  But NA NA NA NA NA  Health Hazard (Acute and Chronic) / Toxiclogical information  In case 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 can cause severe 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 pleuty 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 electrolyte comes into contact with eyes, wash with copious amounts of water for fifteen (15) minutes, and contact a physician.  If electrolyte vapors are inhaled, provide fresh air and seck medical attention if respiratory irritation develops. Ventilate the contaminated of th |   |  |                                    |                     |                     |                    |
| Section VI - Health Hazard Data Route(s) of Inhabation? Skin? Ingestion?  Entry NA   |   |  |                                    | y Data              |                     |                    |
| Incompatibility (Materials to Avoid)  Hazardous Decomposition or Byproducts  Hazardous Decomposition or Byproducts  Hazardous Polymerization  Will Not Occur  Will Not Occur  X  Section VI - Health Hazard Data  Route(s) of Inhabition? Skin? Ingestion?  Entry  NA  NA  NA  NA  Health Hazard (Acute and Chronic) / Toxiclogical information  In case of electrolyte leakage, skin will be itchy when contaminated with electrolyte.  In contact with electrolyte vapors may cause 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 electrolyte vapors are inhaled, provide fresh air and seck medical attention if respiratory irritation develops. Ventilate the contaminated of the politic fields of the provide fresh air and seck medical attention if respiratory irritation develops. Ventilate the contaminated of Section VIII — Fire and Explosion Hazard Data  Plash Point (Method Used) Ignition Temp.  NA  NA  NA  NA  NA  NA  NA  NA  NA  N   |   |  | Conditions to Avoid                |                     | Unstable            | Stability          |
| Hazardous Decomposition or Byproducts  Hazardous May Occur Conditions to Avoid  Will Not Occur X  Section VI - Health Hazard Data  Route(s) of Inhalation? Skim? Ingestion?  Entry NA. NA. NA. NA.  Health Hazard (Acute and Chronic) / Toxiclogical information  In case of electrolyte leakage, skin will be itchy when contaminated with electrolyte.  In contact with electrolyte vapors may cause irritation of the upper respiratory tract and lungs.  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 electrolyte vapors are inhaled, provide fresh air and seck medical attention if respiratory irritation develops. Ventilate the contaminated of Section VIII — Fire and Explosion Hazard Data  Flash Point (Method Used) Ignition Temp. Planmable Limits LEL UEL  NA NA NA NA NA NA  Extinguishing Media  Carbon Dioxide, Dry Chemical or Foam extinguishers can be used for battery BUT water extinguisher is not suitable.  Special Fire Fighting Procedures  NA  Unusual Fire and Explosion Hazards  Do not dispose of battery in fire - may explode.  |   |  |                                    | х                   | Stable              |                    |
| Hazardous May Occur VI - Health Hazard Data  Section VI - Health Hazard Data  Route(s) of Inhalation? Skin? Ingestion?  Entry NA NA NA NA NA  Health Hazard (Acute and Chronic) / Toxiclogical information  In case 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 electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated of the provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated of Section VIII — Fire and Explosion Hazard Data  Flash Point (Method Used) Ignition Temp.  NA N  |   |  |                                    | i)                  | Materials to Avoid  | Incompatibility (I |
| Section VI - Health Hazard Data Route(s) of Inhalation? Skin? Ingestion? Entry NA NA NA NA NA Health Hazard (Acute and Chronic) / Toxiclogical information  In case 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 electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated a  Section VIII - Fire and Explosion Hazard Data Flash Point (Method Used) Ignition Temp. Flammable Limits LEL UEL NA   |   |  |                                    | oducts              | nposition or Bypro  | Hazardous Decor    |
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| Route(s) of Inhalation? Skin? Ingestion?  Entry N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A   |   |  | <u> </u>                           |                     | ł                   | <del></del>        |
| Entry  N.A.  N.A.  N.A.  Health Hazard (Acute and Chronic) / Toxiclogical information  In case 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 electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated a  Section VIII - Fire and Explosion Hazard Data  Flash Point (Method Used) Ignition Temp. Flammable Limits LEL UEL  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 Hazards  Do not dispose of battery in fire - may explode.  | *************************************** |  |                                    | azard Data          | - Health Ha         | Section VI         |
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| Health Hazard (Acute and Chronic) / Toxiclogical information  In case 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 electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated a  Section VIII - Fire and Explosion Hazard Data  Flash Point (Method Used) Ignition Temp. Flammable Limits LEL UEL  NA NA NA.  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 Hazards  Do not dispose of battery in fire - may explode.  | N.A.                                    | N.A.   | N.A.                               |                     |                     | Entry              |
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| If electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated a Section VIII - Fire and Explosion Hazard Data  Flash Point (Method Used)   Ignition Temp.   Flammable Limits   LEL   UEL   N.A.    |   | plenty of water immediately.                                   | ct with skin, wash with plenty o   | rs and makes conta  | olyte leakage occur | If electro         |
| If electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops. Ventilate the contaminated a Section VIII - Fire and Explosion Hazard Data  Flash Point (Method Used)   Ignition Temp.   Flammable Limits   LEL   UEL   N.A.    |   | its of water for fifteen (15) minutes, and contact a physician | ash with copious amounts of wa     | ontact with eyes, w | olyte comes into co | If electro         |
| Plash Point (Method Used)   Ignition Temp.   Flammable Limits   LEL   UEL  | rated area.                             |  |                                    |                     |                     |                    |
| 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 Hazards  Do not dispose of battery in fire - may explode.   |   |  | Hozord Data                        | 1 Evalorion         | II - Eiro and       | Section VI         |
| N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A.  | *************************************** | imite [16]   |                                    | legition Term       | and Used)           | Flash Point (Meth  |
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| Carbon Dioxide, Dry Chemical or Foam extinguishers can be used for battery BUT water extinguisher is not suitable.  Special Fire Fighting Procedures  N.A.  Jousual Fire and Explosion Hazards  Do not dispose of battery in fire - may explode.   | ····                                    | 1071.  | ,                                  |                     |                     |                    |
| Special Fire Fighting Procedures N.A.  Unusual Fire and Explosion Hazards  Do not dispose of battery in fire - may explode.  |   | r battery Bl T water extinguisher is not enitable              | upnishers can be used for batters  | nical or Foam exti  |                     | - •                |
| Jousual Fire and Explosion Hazards Do not dispose of battery in fire - may explode.  |   | s outer, bot where changersher is not suitable.                | San san on san on santa            |                     |                     | Special Fire Figh  |
| Do not dispose of battery in fire - may explode.   |   |  |                                    | le .                | Explosion Hazard    |                    |
|  |   |  | c.                                 |                     | -                   |                    |
| ,,   |   |  |                                    |                     |                     |                    |
|  |   |  |                                    |                     |                     | 35 1101 31         |



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### **GP** Batteries

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|-----------------|--|--|--|
| Section I       | X – Accidental Release or S  | nillogo  | ····                                   |
|                 | Taken in Case Material is Released   |  |  |
|                 |  | •  |  |
|                 | cries that are leakage should be handled with  | ubber gleves.  |  |
|                 | id direct contact with electrolyte<br>ir protective clothing and a positive pressure S   | ALC Continued Broading Assessment (CCDA)                 |  |
| 1762            | ar protective croating and a positive pressure a   | en-contanted breathing Apparatus (3C5A).                 |  |
| Section         | C – Handling and Storage   |  |  |
|                 | ng and storage advice  |  |  |
| В:              | atteries should be handled and stored carefully  | to avoid short circuits.                                 |  |
|                 | o not store in disorderly fashion, or allow met  |  |  |
|                 | ever disassemble a battery.  |  |  |
| D               | o not breathe cell vapors or touch internal mat  | crial with bare hands.                                   |  |
| W               | cep batteries between -20°C and 35°C for prof<br>hen the cells are closed to fully charged, the s<br>ansportation and packed with efficient air vent | orage temperature should be between -20°C and 30°C and s | hould be controlled at 10-20 °C during |
|                 |  |  |  |
|                 | KI – Exposure Controls / Pe  |  |  |
| Occupational I  | Exposure Limits. LTEP  | STEP   |  |
|                 | N.A  | N.A.   |  |
| Respiratory Pr  | otection (Specify Type) N.A.   |  |  |
| Ventilation     | Local Exhausts   | Special  |  |
|                 | NA.  | N.A.   |  |
|                 | Mechanical (General)   | Other  | ****                                   |
|                 | NA.  | N A.   |  |
| Protective Glo  | ves  | Eye Protection   |  |
|                 | N.A.   | N.A.   |  |
| Other Protectiv | ve Clothing or Equipment N.A.  |  |  |
| Work / Hygien   |  |  |  |
|                 | N.A.   |  |  |
|                 |  |  |  |
| Section >       | KII – Ecological Information   |  |  |
|                 | N.A  |  |  |
|                 |  |  |  |
| Section >       | KIII – Disposal Method   |  |  |
| ~               | A1 '   |  |  |
| ******          | of batteries according to government regulati  | ons.   |  |
| Member          |  |  |  |



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### **GP** Batteries

### Material Safety Data Sheet For NiMH Batteries

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#### Section XIV - Transportation Information

GP 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, zine-carbon, sliver 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 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 Carbon Dioxide, Dry Chemical or Foam extinguishers 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.



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