

For RadioShack Cat. No. : 23-043

MATERIAL SAFETY DATA SHEET

| MATERIAL SAFETY DAT | FA SHEET | | | Date: 27 MAY, 2003 | | |
|--|---------------------|--------------------|----------------------|---------------------------------------|--|--|
| Identity (As Used on Label and List) | | Note: Blank space | es are not permitted | d if may item is not applicable or no | | |
| GP180AAHC | | - | - | nust be marked to indicate that. | | |
| Section I | | | ^ | | | |
| Manufacturer's Name | | Emergency Telep | ohone Number | | | |
| GPI International Ltd. / GP Batteries (U.S.A.) Inc. | | | | | | |
| Address (Number, Street, City, State, and ZIP Code) | Telephone Numb | er for information | | | | |
| 8/F, Gold Peak Building, 30 Kwai Wing Road, Kwai Chung, | | (852) 2484 333 | 3 | | | |
| 11235 West Bernardo Court, San Diego, CA92127-1638, U. | | (619) 674 5620 | | | | |
| Section II - Hazardous Ingredients/Ic | lentity Information | • | | | | |
| Hazardous Components: | | | | | | |
| Description: Approximate % of total weight | | | | | | |
| | | | | | | |
| Ni(OH)2 (Nickel Hydroxide) | ; 23.60 | Wt% | | | | |
| | | | | | | |
| 30% KOH Solution (Potassium Hydroxide) | ; 9.80 | Wt% | | | | |
| | | | | | | |
| Mercury | ; <5 ppm | | | | | |
| | | | | | | |
| Lead | ; Nil | | | | | |
| | | | | | | |
| Cadmium | ; Nil | | | | | |
| Caption III Dhysical/Chamical Char | o oto riotico | | | | | |
| Section III - Physical/Chemical Char | | | | | | |
| Boiling point Specific Gravity (H20 | | | | | | |
| N.A. | | N.A. | | | | |
| Vapor Pressure (mm Hg) | Melting Point | | | | | |
| N.A. | | N.A. | | | | |
| Vapor Density (AIR =1) | Evaporation Rate | | | | | |
| N.A. | (Butyl Acetate =1) | N.A. | | | | |
| Solubility in Water | | | | | | |
| N.A. | | | | | | |
| Appearance and Odor | 1 | | | | | |
| Cylindrial Shape, odor Section IV - Fire and Explosion Haza | | | | | | |
| | Flammable Lin | mita | LEL | UEL | | |
| Flash Point (Method Used) | Fiammable Li | | | | | |
| N.A. Extingushing Media | | N.A. | N.A. | N.A. | | |
| N.A. | | | | | | |
| | | | | | | |
| Special Fire Fighting Procedures N.A. | | | | | | |
| Unusual Fire and Explosion Hazards | | | | | | |
| When exposed to excess heat, cell may burst | | | | | | |
| when exposed to excess neat, cell may burst | | | | | | |



| Section V | - Reactivity Data | |
|-----------|-------------------|---------------------|
| Stability | Unstable | Conditions to Avoid |
| | Stable X | |

Incompatibility (Materials to Avoid)

| Hazardous Deco | omposition or Byproducts | | | | | | | |
|-------------------|----------------------------------|-------------------------------|---|--|--|--|--|--|
| When heated, ba | attery may emit hazardous vap | ours of KOH/NaOH & Hg. | | | | | | |
| Hazardous | May Occur | Conditions to Avoid | | | | | | |
| reactions | | | | | | | | |
| | Will Not Occur X | | | | | | | |
| Section V | Section VI - Health Hazard Data | | | | | | | |
| Route(s) of Entr | y Inhalati | on? Skin? | Ingestion? | | | | | |
| | | N.A. | N.A. N.A. | | | | | |
| Health Hazard (| Acute and Chronic) | N.A. | | | | | | |
| Carcinogenicity | NTP? | LARC | Monographs? OSHA Regulated? | | | | | |
| | | N.A. | N.A. N.A. | | | | | |
| Signs and Symp | toms of Exposure | | | | | | | |
| In case of electo | olyte leakage, skin will be itch | ly when contaminated by elec | ctrolyte. | | | | | |
| Medical Conditi | ions | | | | | | | |
| Generally Aggra | avated by Exposure | N.A. | | | | | | |
| Emergency and | First Aid Procedures | | | | | | | |
| - | · · · | h immediately with water. Fo | or eye contact, flush with copious amounts of water for 15 minutes | | | | | |
| and see physian. | | | | | | | | |
| Section V | II - Precautions fo | r Safe Handling a | nd Use | | | | | |
| - | en in Case Material is Release | • | | | | | | |
| ^ | | ž î | rom leaker comes in contact with skin, wash immediately with | | | | | |
| water. For eye c | contact, flush with copious am | ounts of water for 15 minutes | and see physian. | | | | | |
| Waste Disposal | Method | | | | | | | |
| - | te since battery may explode. | | | | | | | |
| | | | | | | | | |
| Precaution to Be | e Taken in Handling and Stori | ng | | | | | | |
| | | - | store them in a place which is dry and subject to little temperature | | | | | |
| | * * | <u>^</u> | mlight. Do not dispose of the battery in fire. Do not charge the battery. | | | | | |
| | ý 1 | backward position. Do not d | lisassemble the battery, handling in such manner can cause the battery | | | | | |
| to explode, leak | | | | | | | | |
| Other Precaution | | instructions Replace all batt | teries in equipment at the same time. Do not mix battery systems of | | | | | |
| | · · | ÷ | . Check batteries periodically when in use. | | | | | |
| | III - Control Measure | | | | | | | |
| | tection (Specify Type) | 163 | | | | | | |
| Respiratory 110 | icetion (speeny Type) | | | | | | | |
| Ventilation | Local Exhausts | | Special | | | | | |
| | | N.A. | N.A. | | | | | |
| | Mechanical (General) | | Other | | | | | |
| . | | N.A. | N.A. | | | | | |
| Protective Glove | es | N A | Eye Protection | | | | | |
| Other Protective | e Clothing or Equipment | N.A. | N.A. | | | | | |
| | Crothing of Equipment | N.A. | | | | | | |
| Work/Hygonia I | Desertation | | | | | | | |

N.A.

Work/Hygenic Practices