

Golden Power Corporation (HK) Ltd.

| Safety Data Sheet SDS | | | Ref.No | .:GPSDS-All | kaline-2022A | | | |
|--|-------------------|--|--|------------------------|------------------------|--|--|--|
| IDENTITY (As Read on Label and Line) | Notice: Blank spa | Notice: Blank spaces are not permitted. If any item is not | | | | | | |
| LR6,LR03 | | * * | applicable, or no information is available, the space must | | | | | |
| Power P+US Alkaline Ba | | d to indicat | | | | | | |
| Section I – Identification of the s | ıbstance/pr | eparation and of | the comp | any/underta | king | | | |
| Manufacturer's Name | | Telephone Number | | | | | | |
| Golden Power Corporation (HK) Ltd. | | (852) 3125 2288 | | | | | | |
| (Goldtium Jiangmen Energy Produ | | | | | | | | |
| , , , , , , , , , , , , , , , , , , , | | Fax Number (852) 3125 2000 / 3125 2001 | | | | | | |
| Flat C, 20/F., Block 1, Tai Ping Industrial Centre, | | | | | | | | |
| 57 Ting Kok Road, Tai Po, N.T., Hong Kong | | | | | | | | |
| (Building 1&2,NO.83 Yongsheng Street,Pengjiang | | - | Date Prepared | | | | | |
| District, Jiangmen City, Guangdong Province, P.R. China) | | | 2 January 2022 Signature of Preparer (optional) | | | | | |
| | | | rer (optional | | | | | |
| Section II –Composition/informa | | | | | 2127 | | | |
| Hazardous Components (Specific Chemic | | ommon Names) | (contents, | • | CAS No. | | | |
| Manganese Dioxide | (MnO2) | | 40.24% | | 1313-13-9 7440-66-6 | | | |
| Zinc | (Zn) | | 16.30% | | | | | |
| Potassium Hydroxide | (KOH) | | 5.57% | | | | | |
| Graphite | (C) | | 2.54% | 7782-42-5 | | | | |
| Water | (H2O) | | 8.03% | 7732-18-5 8053-60-9 | | | | |
| Ferrum | (Fe) | | 23.17% | | | | | |
| Polyamide | (NyLon) | | 0.97% | | | | | |
| Nickel | (NI) | | 0.21% | | | | | |
| Copper | (CU) | | 2.78% | | | | | |
| Other | 0.19% | | | | | | | |
| EU Battery Directive 2006-66-EC(2 | 013-56-EU) | & US104-142 | | | | | | |
| Mercury | (Hg) | | < 0.000 | 7439-97-6 | | | | |
| Lead | (Pb) | < 0.0005% | | | 7439-92-1 | | | |
| Cadmium | (Cd) | | < 0.0005% | | | | | |
| Section III -Physical and chemic | al properti | es | | | | | | |
| Boiling Point | | Specific Gravity (I | Specific Gravity (H ₂ O=1) | | | | | |
| KOH aqua solution = 140 °C | | $MnO_2 = 4.4$, Zn | = 7.1, KO | 0H = 2.0 | | | | |
| Vapor Pressure (mmHg) | | Melting Point | | | | | | |
| KOH aqua solution = 3mmHg at 20 °C | | MnO ₂ decompose at 535 °C | | | | | | |
| | | $Zn = 420 ^{\circ}C$, KOH aqua = $-35 ^{\circ}C$ | | -35 °C | | | | |
| Vapor Density (Air = 1) | | Evaporation Rate | | | | | | |
| Solubility in Water KOH – complete | | (Butyl Acetate = 1) |) | | | | | |
| | | | | | | | | |
| Appearance and Color | ouder C1 | ito is also a blastara | udon Zin - i : | o cilvon mastal | | | | |
| <u>-</u> | - | ite is also a black pow with stimulative order | | a siiver metal. | | | | |
| Section IV –Fire-fighting measur | | wini sumulanve ordei | L. | | | | | |
| | . ~ | Elammahla Limita | | I EI | TIEI | | | |
| Flash Point (Method Used) | Flammable Limits | | LEL | UEL | | | | |



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| Incombustible | | | Not Available | | | | | |
|-------------------------------------|--|------------------|----------------------------|----------------------|------------------|--------------------------|-------------------|---|
| Extinguishing I | Media: See Specia | l Fire | Fighting | Procedu | ıre | | | l |
| packed in their unpackaged cells | original containers s use LITH-X (Grap | since hite E | e the fuel Base). In th | of the finis case, d | ire is lo not | basically pap use water. | er products. F | tinguishers if cells are for bulk quantities of mposition products. |
| Unusual Fire and l | Explosion Hazards | | | | | | | |
| | | | | | | | | |
| Section V –Sta | bility and reactiv | vity | 1 | | | | | |
| Stability | Unstable | | Conditions | s to Avoid | Do 1 | not short circui | t, charge or disp | pose of in fire. |
| | Stable | $\sqrt{}$ | | | | | | |
| Incompatibility (M | Materials to Avoid) | | Hazardo | ous polym | nerizat | tion will not oc | ecur. | |
| Hazardous Decom | position or Byproduc | ts | Not Ava | ilable | | | | |
| Hazardous | May Occur | | Conditions | s to Avoid | | | | |
| Polymerization | Will Not Occur | V | | | | | | |
| Section VI –To | oxicological infor | matic | on | | | | | |
| Route(s) of Entry. | Inhalatio | 1? | Yes | Sk | in? | Yes | Ingestion? | Yes |
| C | when a co | ell ver and e | nts KOH is yes should | caustic al | kali a | - | = | sk is acute exposure ontact of electrolyte |
| Section VII – I Cardnogenicity | Ecological Inform NTP? Not Avai | | | Ionograph | 62 27 | | OSUA Dagulate | <u></u> |
| Signs and Sympto | 11017111 | | | | | | | ed? Not Available |
| Medical Condition | - | | | | | rn upon contac | | |
| Generally Aggrava | | An | acute expo | osure will | l not g | generally aggra | vate any medi | cal help. |
| Section VIII – | First-aid measur | es | | | | | | |
| | kin contact with contact, flush with copp. | | | | | | | et |
| Section IX - A | ccidental release | meas | ures | | | | | |
| Steps to Be T | aken in Case Materia | l is Re | leased or S _l | pilled | Wipe | out by wet dus | ster. | |
| Section X - Dis | sposal considerat | ions | | | | | | |
| General aba | andonment | | | | | | | |
| | andling and stor | | | | | | | |
| | nanical or electrical | | | | | | | |
| | Hazards identifica | | | | | | | |
| Do not shor | t circuit, charge or | dispos | se of in fire | e. Battery | may | explode or lead | k. | |
| Section XIII - | Exposure control | ls/pei | sonal pr | otection | | | | |
| Respiratory Protect | ction (Specify Type) | | Not Avai | lahle | | | | |



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| Ventilation | Local Exhaust | | | Special | | |
|----------------------|-----------------------|-------|---------------------|---------------|--|--|
| | Not Available | | Not Available | | | |
| | Mechanical (General) | | Other | | | |
| | Not Available | | | Not Available | | |
| Protective Gloves | Butyl Eye Protect | | tion Safety Glasses | | | |
| Other Protective Clo | othing or Equipment | | | | | |
| | Not Avai | lable | | | | |
| Work / Hygienic Pra | ctices | | | | | |
| | Not Avai | lable | | | | |
| Section XIV – R | egulatory Information | | | | | |
| Not Av | ailable | | | | | |
| | | | | | | |
| Section XV - Ot | ther Information | | | | | |
| Not Av | ailable | | | | | |
| | | | | | | |

Section XVI - Transportation Information

Golden Power "Power Plus Alkaline Battery" are considered to be "dry cell" batteries and are not listed as dangerous goods under below regulations:

- 1. Batteries, dry fulfills the requirement of U.S. Department of Transportation (DOT), Special Provision 130, i.e. they are offered for transportation in a manner that prevents the dangerous evolution of heat (for example, by the effective insulation of exposed terminals or batteries to be packed in such a way to prevent short circuits or generation of a dangerous quantity of heat.)".
- 2. International Civil Aviation Administration (ICAO) and International Air Transport Association (IATA Dangerous Goods Regulations 63rd Edition 2022), Special Provision A123, i.e. "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 or batteries to be packed in such a way to prevent short circuits or generation of a dangerous quantity of heat.) is forbidden from transportation."
- 3. International Maritime Dangerous Goods Regulations (IMDG)2020/40-20 edition does not regulate these batteries.

Examples of such batteries include alkali-manganese, silver oxide, zinc carbon, nickel metal hydride and nickel-cadmium batteries.

