

Article Information Sheet

Product name: Rechargeable Li-ion Polymer Battery

Printing date: 10-Sept-2019

Article Information Sheet (AIS)

This Article Information Sheet (AIS) provides relevant battery information to retailers, consumers, OEMs and other users requesting a GHS - compliant SDS. Articles, such as batteries, are exempt from GHS SDS classification criteria. The GHS criteria is not designed or intended to be used to classify the physical, health and environmental hazards of an article. Branded consumer batteries are defined as electro - technical devices. The design, safety, manufacture, and qualification of Energizer branded consumer batteries follow ANSI and IEC battery standards.

1. DOCUMENT INFORMATION

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|---------------|-------------------------------------|
| Product name: | Rechargeable Li-ion Polymer Battery |
| Model: | 503440 3.7V |
| Issue Date: | 10-Sept-2019 |

2. COMPANY INFORMATION

| | |
|---------------------|---|
| Company name(China) | DONGGUAN GOLDEN CEL BATTERY CO.,LTD |
| Address: | No.11, Yinhu Industrial park, JiaoYiTang Management Zone, TangXia, DongGuan, GuangDong, China |
| E-mail: | zhirongjian@celbattery.com |
| Telephone: | +86-769-82195308-8016 |

3. ARTICLE INFORMATION

| | |
|-------------|--|
| Description | Rechargeable Li-ion Polymer Battery |
| Use | LITHIUM ION BATTERY |
| Brand | ---- |
| Image |  |

4. ARTICLE CONSTRUCTION

IMPORTANT NOTE: The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

| Chemical name | CAS No. | Concentration% |
|--|------------|----------------|
| Lithium Cobalt Oxide (CoLiO ₂) | 12190-79-3 | 37.0 |
| Graphite powder | 7782-42-5 | 18.5 |

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|-------------------------------------|------------|------|
| Phosphate(1-), hexafluoro-, lithium | 21324-40-3 | 18.7 |
| Copper | 7440-50-8 | 12.3 |
| Aluminum | 7429-90-5 | 9.9 |
| Nickel | 7440-02-0 | 3.6 |

5. HEALTH AND SAFETY

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| Ingestion: | Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. |
| Inhalation: | Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get medical attention immediately if symptoms occur. |
| Skin contact: | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required. May cause an allergic skin reaction. |
| Eye contact: | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice. |
| Self-protection of the first aider: | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8). |

6. FIRE HAZARD & FIREFIGHTING

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| Fire Hazard | Batteries may rupture or leak if involved in a fire. |
| Extinguishing Media | Use any extinguishing media appropriate for the surrounding area. |
| Special hazards arising from the chemical | In case of fire where lithium batteries are present, flood area with water or smother with a Class D fire extinguishant appropriate for lithium metal, such as Lith-X. Water may not extinguish burning batteries but will cool the adjacent batteries and control the spread of fire. Burning batteries will burn themselves out. Virtually all fires involving lithium batteries can be controlled by flooding with water. However, the contents of the battery will react with water and form hydrogen gas. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended. A smothering agent will extinguish burning lithium batteries. |
| Precautions for fire-fighters | Emergency Responders should wear self-contained breathing apparatus. Burning lithium manganese dioxide batteries produce toxic and corrosive lithium hydroxide fumes. |

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7. HANDLING AND STORAGE

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|---|--|
| Storage | Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life. In locations that handle large quantities of lithium batteries, such as warehouses, lithium batteries should be isolated from unnecessary combustibles. |
| Handling | Avoid mechanical and electrical abuse. Do not short circuit or install incorrectly. Batteries may rupture or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions. |
| Spills of Large Quantities Batteries (unpackaged) | Notify spill personnel of large spills. Irritating and flammable vapors may be released from leaking or ruptured batteries. Spread batteries apart to stop shorting. Eliminate all ignition sources. Evacuate area and allow vapors to dissipate. Clean-up personnel should wear appropriate PPE to avoid eye and skin contact and inhalation of vapors or fumes. Increase ventilation. Carefully collect batteries and place in appropriate container for disposal. Remove any spilled liquid with absorbent material and contain for disposal. |

8. DISPOSAL CONSIDERATIONS

Dispose of used (or excess) batteries in compliance with federal, state/provincial and local regulations. Do not accumulate large quantities of used batteries for disposal as accumulations could cause batteries to short-circuit. Do not incinerate. In countries, such as Canada and the EU, where there are regulations for the collection and recycling of batteries, consumers should dispose of their used batteries into the collection network at municipal depots and retailers. They should not dispose of batteries with household trash.

9. Transport information

The transportation of primary lithium cells and batteries is regulated by the International Civil Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment: 1. Air shipments must meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations. 2. Meet the requirements for the US Department of Transportation listed in 49 CFR 173.185. 3. The transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to the Federal Register December 15, 2004 (Hazardous Materials; Prohibited on the Transportation of Primary Lithium Batteries and Cells Aboard Passenger Aircraft; Final Rule)

Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "Dangerous Goods" when shipped in accordance with "special provision A45 of IATA-DGR" or "special provision 188 of IMO-IMDG Code"

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|---------------------------------------|---|
| (a) UN number | 3480&3481 |
| (b) UN Proper shipping name | LITHIUM ION BATTERIES (including lithium ion polymer batteries) or; LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries) |
| (c) Transport hazard class(es) | 9 |

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|--|---------------------------|-------------------------|---------------------|--------------------------|
| (d) Packing group (if applicable) | IA | | | |
| (e) Marine pollutant (Yes/No) | No | | | |
| (f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code) | No information available. | | | |
| (g) Special precautions | No information available. | | | |
| (h) Organizations governing the transport of lithium batteries | Area | Method | Organization | Special Provision |
| | U.S.A | Air, Rail, Road, Marine | DOT | 49 CFR Section 173.185 |

10. REGULATORY INFORMATION

(a) Safety, health and environmental regulations specific for the product in question

| CAS No. | USA TSCA | EU EINECS | Japan ENCS | Korea ECL | China IECSC | Canada DSL |
|------------|-------------|--------------|---------------|--------------|----------------|---------------|
| 12190-79-3 | Listed | Listed | Listed | Listed | Listed | Listed |
| 7782-42-5 | Listed | Listed | Not listed | Listed | Not listed | Listed |
| 21324-40-3 | Not listed | Not listed | Listed | Not listed | Listed | Not listed |
| 7440-50-8 | Not listed | Not listed | Listed | Not listed | Listed | Not listed |
| 7429-90-5 | Listed | Listed | Listed | Not listed | Listed | Listed |
| 7440-02-0 | Not listed | Listed | Listed | Listed | Not listed | Not listed |

11. OTHER INFORMATION

| | |
|---------|--|
| TSCA: | Toxic Substances Control Act, The American chemical inventory. |
| DSL | Domestic Substances List |
| EINECS: | European Inventory of Existing Commercial chemical Substances |
| ENCS | Japanese Existing and New Chemical Substances |
| ECL: | Existing Chemicals List, the Korean chemical inventory. |
| IECSC: | Inventory of existing chemical substances in China. |

Because all of our batteries are defined as "articles", they are exempted from the requirements of the Hazard Communication Standard. The information in this AIS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This AIS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this AIS should make independent judgment for the applicability of this AIS under special conditions. In these special cases, we do not assume responsibility for the damage.

----- End of the AIS -----