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MATERIAL SAFETY DATA SHEET

Report No.: BCTC2306721885B

Applicant: WUXI CITY BAOLAI BATTERY CO.,LTD

Product Name: ALKALINE BATTERY

Product Type: LR03

Issued Date: 2023-06-05

Prepared By:

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Issued By:

Peter Pan



Shenzhen BCTC Testing Co., Ltd

* The MSDS is prepared based on the information provided by client. The contents and formats of this MSDS are revised as per client's request.

Section 1-Chemical Product and Company Identification

Product Name	ALKALINE BATTERY
Model	LR03
Trade Mark	Sagitar
Ratings	1.5V
Weight	About 11.5g
Manufacturer	WUXI CITY BAOLAI BATTERY CO., LTD
Manufacturer address	North Industrial Park, Huang Shi Street, QianZhou Town, Huishan Area, Wuxi City, Jiangsu, China
Emergency Telephone	+86-510-83397086
Fax	+86-510-83397091

Section 2- Composition Information

Chemical Composition	CAS No.	Weight (%)	Trade Secret
Manganese dioxide(MnO ₂)	1313-13-9	24.2	*
Zinc(Zn)	7440-66-6	25.8	*
Water(H ₂ O)	/	22.6	*
Ammonium chloride(NH ₄ Cl)	/	4.2	*
Zinc chloride(ZnCl ₂)	7646-85-7	5.6	*
Conductive material	/	11.1	*
Other	/	6.5	*

“ * ” The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 3- Hazards Identification

Emergency overview:	N/A
Classification according to GHS	Not a dangerous substance according to GHS
Label elements:	

Hazard pictogram(s)	Not Available
Signal word	Not Available
Hazard statement(s)	Not Available
Precautionary statement(s):	
Prevention	Not Available
Response	Not Available
Disposal	Not Available
Environmental hazards:	No relevant information
Important symptoms:	See section 11 for more information

Section 4- First Aid Measures

Eye contact	Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin contact	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.
Inhalation	Remove from exposure and move to fresh air immediately. Use oxygen if available.
Ingestion	Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

Section 5- Fire Fighting Measures

Flash Point	N/A
Auto-Ignition Temperature	N/A
Extinguishing Media	H ₂ O, CO ₂
Special Fire-Fighting Procedures	Self-contained breathing apparatus
Unusual Fire and Explosion Hazards	Cell may vent when subjected to excessive heat-exposing battery contents
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.

Section 6- Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

If the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapors to dissipate. Avoid skin and eyes contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerated. If leakage of the battery happens, liquid could be absorbed with sand, earth or other inert substance and contaminated area should be

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ventilated meantime.	
Environment precautions: Do not allow product to reach sewage system or any water source. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers surface or ground water.	
Methods and material for containment and cleaning up: If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic lined container. Dispose off according to the local law and rules. Avoid leached substances to get into the earth, canalization or waters.	
Section 7- Handling and Storage	
Handling	The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container. Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids.
Storage	Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.
Other Precautions	The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.
Section 8- Exposure Controls/Personal Protection	
Engineering Controls	Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.
Personal Protective Equipment	Respiratory Protection: Not necessary under normal conditions. Skin and body Protection: Not necessary under normal conditions, Wear suitable protective clothing and gloves if handling an open or leaking battery. Hand protection: Wear suitable gloves if handling an open or leaking battery. Eye Protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.
Other Protective Equipment	Have a safety shower and eye wash fountain readily available in the immediate work area.
Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.
Section 9- Physical and Chemical Properties	
Form	Solid
Color	Black and Yellow

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Odour	Not Available
pH	Not Available
Melting point/freezing point	Not Available
Boiling Point and Boiling range	Not Available
Flash Point	Not Available
Upper/lower flammability or explosive limits	Not Available
Vapor Pressure	Not Available
Vapor Density	Not Available
Relative density	Not Available
Solubility in Water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Evaporation rate	Not Available
Flammability (soil, gas)	Not Available
Viscosity	Not Available
Section 10- Stability and reactivity	
Stability	The product is stable under conditions described Section 7
Conditions to Avoid	Heat above 70C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.
Incompatible Materials	Oxidizing agents, acid, base.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.
Possibility of Hazardous Reaction	Not Available
Section 11 – Toxicological Information	
Irritation	Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur.
Sensitization	Not Available

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Neurological Effects	Not Available
Teratogenicity	Not Available
Reproductive Toxicity	Not Available
Mutagenicity (Genetic Effects)	Not Available
Toxicologically Synergistic Materials	Not Available
Section 12- Ecological Information	
Ecological Toxicity	Not Available
Mobility in soil	Not Available
Persistence and Degradability	Not Available
Bioaccumulation potential	Not Available
Other Adverse Effects	Not Available
Section 13- Disposal Considerations	
Product disposal recommendation	Observe local, state and federal laws and regulations.
Uncleaned packaging recommendation	Disposal must be made according to official regulations
Section 14 – Transport Information	
<p>Transport information: This goods shall be considered Not Restricted Goods and need to be complied with the requirements of special provision A123 of 64th DGR Manual of IATA or special provision 963 of IMDG CODE (Amdt. 40-20). The words “Not Restricted” and the Special Provision number must be included in the description of the substance on the Air or Sea Waybill.</p> <p>Transport Fashion: By air, by sea, by railway, by road.</p>	
Section 15- Regulatory information	
<p>Law information 《Dangerous Goods Regulations》 《Recommendation on the Transport of Dangerous Goods Model Regulations》 《International Maritime Dangerous Goods》 《Technical Instructions for the Safe Transport of Dangerous Goods》 《Classification and code of dangerous Goods》 《Occupational Safety and Health Act》 (OSHA) 《Toxic Substance Control Act》 (TSCA) 《Consumer Product Safety Act》 (CPSA) 《Federal Environmental Pollution Control Act》 (FEPCA)</p>	

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《The Oil Pollution Act》 (OPA)
《Superfund Amendments and Reauthorization Act Title III (302/311/312/313)》 (SARA)
《Resource Conservation and Recovery Act》 (RCRA)
《Safety Drinking Water Act》 (CWA)
《California Proposition 65》
《Code of Federal Regulations》 (CFR)
In according with all Federal, State and local laws.

Section 16- Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, concorde makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

Remark:

Main model: LR03 , series model: LR20, LR6,LR14,LR61

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STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without stamp of laboratory.
4. The test report is invalid without signature of person(s) testing and authorizing.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the customer and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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