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MSDS

MATERIAL SAFETY DATA SHEET

Prepared For : SHENZHEN GMCELL TECHNOLOGY CO,.LTD

Room G2205-G2206, Hualian Panorama International

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: Shenzhen LCS Compliance Testing Laboratory Ltd. Prepared By

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Written by: Kaaly Nong Approved by: Hut Ri

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* 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, LR6, 6LR61, LR20, LR14, LR1, 3LR12, 4LR25, 23A, 27A, AGO, AG1, AG2, AG3, AG4, AG5, AG6, AG7, AG8, AG9, AG10, AG11, AG12, AG13, L1154H, L1130H		
Trade Mark	GMCELL		
Ratings	1.5V		
Manufacturer	SHENZHEN GMCELL TECHNOLOGY CO,.LTD		
Manufacturer address	Room G2205-G2206, Hualian Panorama International Building, 27 District, Bao'an, Shenzhen, China		
Emergency Telephone	+86-755-29497371		
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Chemical C	Composition	CAS No.	Weight (%)	Trade Secret
Z	inc	7440-66-6	32.6	*
Mangane	ese dioxide	1313-13-9	22.61	*
Steel	(Iron)	7439-89-6	16.93	*
Zinc		7440-66-6	14.56	*
Potassiun	n hydroxide	1310-58-3	7.48	*
Gra	phite	7782-42-5	2.12	*
Cu-Zn	Copper 7440-50-8	4.00	*	
alloy	Zinc	7440-66-6	1.86	
Zinc	oxide	1314-13-2	0.49	*
Butanone		78-93-3	0.12	*
Calcium stearate		216-472-8	0.11	*
Other ingredients(water,paper, nylon,etc)		12125-02-9	1.12	*

^{*} The exact percentage (concentration) of composition has been withheld as a trade secret.

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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 Applicable			
Signal word	Not Applicable			
Hazard statement(s)	Not Applicable			
Precautionary statement(s):				
Prevention	Not Applicable			
Response	Not Applicable			
Disposal	Not Applicable			
Environmental hazards:	Not 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.			

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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 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.			
	Respiratory Protection: Not necessary under normal conditions.			
Personal Protective Equipment	Skin and body Protection: Not necessary under normal conditions, Wear suitable protective clothing and gloves if handling an open or leaking battery.			
Totoliai Trotosii o Equipiion	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.			

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Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.	
Section 9- Physical and Chemical Properties		
Form	Solid	
Color	Not Applicable	
Odour	Not Applicable	
рН	Not Applicable	
Melting point/freezing point	Not Applicable	
Boiling Point and Boiling range	Not Applicable	
Flash Point	Not Applicable	
Upper/lower flammability or explosive limits	Not Applicable	
Vapor Pressure	Not Applicable	
Vapor Density	Not Applicable	
Relative density	Not Applicable	
Solubility in Water	Not Applicable	
Auto-ignition temperature	Not Applicable	
Decomposition temperature	Not Applicable	
Evaporation rate	Not Applicable	
Flammability (soil, gas)	Not Applicable	
Viscosity	Not Applicable	
Section 10- Stability and reactivity		
Stability	The product is stable under conditions described Section 7	
Conditions to Avoid	Heat above 70°C 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.	

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Possibility of Hazardous Reaction	Not Applicable		
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 Applicable		
Neurological Effects	Not Applicable		
Teratogenicity	Not Applicable		
Reproductive Toxicity	Not Applicable		
Mutagenicity (Genetic Effects)	Not Applicable		
Toxicologically Synergistic Materials	Not Applicable		
Section 12- Ecological Information			
Ecological Toxicity	Not Applicable		
Mobility in soil	Not Applicable		
Persistence and Degradability	Not Applicable		
Bioaccumulation potential	Not Applicable		
Other Adverse Effects	Not Applicable		
Secti	on 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		
Sect	Section 14 – Transport Information		
Label for conveyance	Non Regulated		
UN Number	Non Regulated		
Transport hazard class(es)	Non Regulated		
Packing group	Non Regulated		
Marine pollutant	No		
UN Proper shipping name	Non Regulated		

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Transport information:

This goods shall be considered Not Restricted Goods by the U.S. Department of Transportation (DOT), the International Civil Aviation Organization (ICAO), the International Air Transport Association (IATA) DGR 64th, IATA Special Provisions A123, International Maritime Dangerous Goods Code (IMDG CODE) (Amdt 41-22)

The words "Not Restricted" and the Special Provision number must be included in the description of the substance on the Air or Sea Waybill.

Transport Fashion: By air, by sea, by railway, by road.

Section 15- Regulatory information

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》
- 《Consumer Product Safety Act》(CPSA)
- 《Federal Environmental Pollution Control Act》(FEPCA)
- 《Resource Conservation and Recovery Act》(RCRA)
- 《European Agreement concerning the International Carriage of Dangerous》
- 《Regulations concerning the International Carriage of Dangerous》

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.

-- End of Report --

