MSDS Report

Prepared For :	Shenzhen Gide New Energy Technology Co., Ltd Shenzhen City xiaohuai North Ring Road No.110 bridge building room 1010
Prepared By :	Author:Carl
Model :	AGH, 3KA, LR3C1, AGG, 5M6, LR7JZ, AGS, 26Q, LR4Y, 4GA, 6T1, HNG4, 4GE, 5B0, 5B3, 5F4, AGA, 6T1, 26Q3, AGT, 5M6, LR6ZC, AGW, 3R7, LR1JZ, AGB, 5M6, LR6ZE, AGV3, 3R9, LR5ZE, AGV5, 3R9, LR7DK, AG1L, 5F2, LR1JT, AG1S, 3R6, LR4J, BJ13, 5C1, LR4J, AG1P, 5F3, LR5S
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Report No :	NCT190320R001

Written by : _____ Approved by :

Inspected by : _____ Date :

Material Safety Data Sheet

Section 1 - Chemical Product & Company Identification

Product Name: Button Cell
Manufacture: Shenzhen Gide New Energy Technology Co., Ltd.
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Section 2- Hazards Identification

Prevention of the hazards and classification/ Appearance, Color, Odor	Not classified as toxic, but can cause burns, corrosion or metal fusion due to the hydroxide content when in direct contact with skin, eyes or internal tissues.
Primary Route(s) of Exposure	Solid product with no odor, sense
Potential Health Effects:	Clear chemicals are considered of a weaker corrosive. The of corrosive occurs only if the battery leaks. Contact with the leaking battery can cause irritation to the eyes and skin. Ingestion of the contents can cause severe internal damage. **ACUTE** (Short Term) - Exposure to a corrosive contents. In the event that the battery has been damaged, the electrolyte will cause corrosive irritation to the eyes, skin and mucous membranes and can cause burns. **Inhalation:** Inhalation of materials from a sealed battery is not an expected route of exposure. Nearby materials from a sealed battery may cause respiratory irritation. **Ingestion:** Swallowing of materials from a sealed battery is not an expected route of exposure. Swallowing the contents of an open battery can cause serious acidic burns of mouth, esophagus, and gastrointestinal tract. **Skin:** Contact with materials from a sealed battery is not an acute any harm. Skin contact with the contents of an open battery can cause severe irritation or burns to the skin.

Medical Conditions Aggravated by Exposure	**Eye:** Contact between the battery and the eye will not cause any harm. Eye contact with the contents of an open battery can cause severe irritation or burns to the eye.
Reported carcinogen	**CHRONIC (long term):** see Section 11 for additional toxicological data. Not applicable.
	Not available.

Section 3- Composition/Information on Ingredients

Button Cell is a mixture

Hazardous Ingredients (Chemical Name)	Concentration or concentration ranges (%)	CAS Number
Alkaline	7	7732-18-5
Manganese dioxide	42	1313-13-9
Potassium hydroxide	1.5	1310-58-3
Zinc	23	7440-66-6
Iron	15	7439-89-6
不含以上危险成分的其他物质		
Labeling according to EC directives		
No symbol and risk phrase are required		
Note: Cold Isolation is Chemical Reaction Reagents Number		
Table Salt apply		

Section 4- First Aid Measures

Inhalation	If contents of an opened battery are inhaled, remove source of contamination or move victim to fresh air. Obtain medical advice.
Skin contact	If skin contact with contents of an open battery occurs, as quickly as possible remove contaminated clothing, wash skin with soap and water. In the case of contact with caliscenic, gently flowing water for at least 20 minutes. If irritation or pain persists, obtain medical advice. Wash contaminated clothes before reuse and clean safety shoes and leather articles after use.
Eye contact	If eye contact with contents of an open battery occurs, immediately flush the eyes with potable water or normal saline solution for at least 20 minutes while holding the eyelids open. Obtain medical advice. Have an eye wash fountain or eye wash bottle available. If necessary, consult a specialist for emergency care. Continue to rinse eyes during transport to hospital. Do not use neutralizing agents or any other chemicals unless specified by emergency personnel.
Ingestion	If ingestion of contents of an open battery occurs, never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting unless directed to do so by medical advice. Dilute the contents of mouth by rinsing mouth with water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain medical advice. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and obtain immediate medical advice. Avoid giving milk or oily drinks. Avoid inducing vomiting.

Section 5- Fire Fighting Measures

Flammability of the Product	In the event that the battery has been ruptured, the electrolyte solution contains flammable hydrogen gas. The battery will not burn. Caution should be exercised when a battery which appears to be damaged is heated. One could react in the release of flammable hydrogen gas.
Suitable extinguishing media	Use extinguishing media suitable for the materials that are burning.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Smoke from incinerating Button Cell can be corrosive with water. When water is used, however, hydrogen gas may evolve. In a confined space, hydrogen gas can form explosive mixtures in air. Use water spray to cool fire exposed containers and to safeguard the fire.
Protective equipment and precautions for firefighters	As for any fire, evacuate the area and fight the fire from a safe distance. Wear a self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fight fire from a protected location or a safe distance. Use NON-SPARK equipment when opening containers. Avoid any source of ignition (NO SMOKING) until fire completely out.
NFPA ratings	Health: 0 Flammability: 0 reactivity: 0

Section 6- Accidental Release Measures

Personal Precautions, protective equipment, and emergency procedures	Restrict access to area until completion of cleanup. Do not touch damaged batteries or material. Wear protective clothing as described in Section 8.
Environmental Precautions	Prevent material from contaminating soil and from entering sewers or waterways.
Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Cover to avoid exposure to rain.
Methods and materials for cleaning up	Clean up carefully with an inert absorbent dry sand or earth. Place in a chemical waste container. Use non-sparking tools and explosion proof equipment. Avoid contact with skin and eyes. Provide adequate ventilation. Wash thoroughly after dealing with a spillage. Contaminated clean water for proper disposal.

Section 7- Handing and Storage

Handling	Don't handling Button Cell with metal tools. Do not touch both terminals with bare hands. Prevent short-circuited (permanent of the battery).
	Prevent formation of dust.
	Avoid contact with incompatible materials (see section 10). Do not eat, drink or smoke when using this product.
Storage	Keep out of reach of children.
	Store and storage Button Cell separately in a box or shelf where they can't touch to each other. Keep other or the part covered by other material.
	Keep out of source of ignition.
	Do not expose Button Cell to heat or fire. Avoid storage in direct sunlight.
	Do not store together with oxidizing and acidic materials.

Section 8 - Exposure Controls/Personal Protection

Engineering Controls	Use local exhaust ventilation or other engineering controls to control exposure of dust, fumes or vapors.
	Keep away from heat and open flame. Wash at a task, dry place.
Personal Protective Equipment	Respiratory protection: Not necessary under normal conditions.
	Skin and body Protection: Not necessary under normal conditions. Wear protective clothing. Leather gloves if handling an open or leaking battery.
	Eye protection: Avoid exposure of natural conditions. Wear safety goggles if handling an open or leaking battery.
	Hand protection: Not necessary under normal conditions. Wear safety gloves if handling an open or leaking battery.
Other Protective Equipment	Have a plastic, bucket and eye wash fountain available in the work area.
Hygiene Measures	Do not eat, drink, or tobacco in work area. Wash hands after handling.

Section 9- Physical and Chemical Properties

Physical State	Appearance: Solid Color: Silver Odour: Odourless
Change in temperature	Not applicable
pH, with indication of the concentration	Not applicable
Melting point/freezing point	Not available.
Boiling Point, initial boiling point and Boiling range	Not available.
Flash Point	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not applicable
Vapor Density. (Air = 1)	Not applicable
Relative density	Not applicable
Solubility in Water	Insoluble

n-octanol/water partition coefficient	Not available.
Auto-ignition temperature	100°C
Decomposition temperature	Not available.
Odour threshold	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Viscosity	Not applicable

Section 10 – Stability and Reactivity

Stability and reactivity	The product is stable under normal conditions.
	Do not scratch Button Cell to hold/grasp shock.
	Do not short-circuit Button Cell by connecting the positive and negative terminals to each other.
	Do not disassemble Cell, short or blast with explosion. Do not expose Button Cell to heating source.
Incompatible Materials	Not Available
Hazardous Decomposition Products	The battery may release toxic fumes if burned or exposed to fire.
Possibility of Hazardous Reactions	Not Available

Section 11 – Toxicological Information

Irritation	Risk of leakage and rupture of the cell is minimized. Swallowing or electrically abused by charging, crushing, heating, or short circuit of a battery, irritation to the skin, eyes and respiratory tract.
Sensitization	Not Available
Neurological Effects	Not Available
Teratogenicity	Not Available
Reproductive Toxicity	Not Available
Mutagenicity (Genetic Effects)	Not Available
Toxicological Information Materials	Not Available

Section 12-Ecological Information

General note	Inhale hazard does 10ml/l environment; slightly hazardous to water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Anticipated behavior of a chemical product in environmental/biotic environmental impact	Not Available
Mobility in soil	Not Available
Persistence and degradability	Not Available
Bioaccumulative potential	Not Available
Other Adverse Effects	Not Available

Section 13 – Disposal Considerations

Product disposal recommendations: Dispose of waste and handling as per regulations.
Packaging disposal recommendations: To avoid chemical contact, dry cells in the battery terminals should be taped before disposal. Batteries should be packaged to prevent short circuits in transport. Do not incinerate batteries. Contact your local waste disposal authority for information regarding the collection, recycling, treatment and disposal of batteries.

The material results as the environment and human health aspects of the manufacture, use in batteries and accumulation, transportation and recycling of waste batteries and accumulators as well as municipal waste and of processing is mainly considered access to human treatment and recycling.

Section 14 – Transport Information

Button Cell is considered as "Batteries, dry," batteries and are considered to be in compliance of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation Administration (ICAO), International Air Transport Association (IATA), International Maritime Organization (IMO).

Special Provision A123, Exemptions of each batteries and wheel mechanisms, mini-motor, metal hydride batteries, lithium batteries, fuel cell cartridges, and lithium batteries packed with or contained in equipment are not subject to any other requirements of this subchapter.

At a short-circuit (e.g. in the case of batteries), by the effective insulation of exposed terminals, or, in the case of batteries, by packaging them in packaging made of non-conductive material.

UN standard number: 3090

The words "Ind Restriction" and the Special Provision number must be included in the description of the shipping name on the shipping paper. For example: "Lithium Metal Batteries, when air or Aircraft is stowed."

Packaging Instruction: Any, Note 1

UN Proper shipping name(Description/technical name): Batteries, dry

UN Classification/Transport hazard class: N/A

Packing group: N/A	

Section 15 – Regulatory Information

OSHA hazard communication standard (29 CFR 1910.1200)

_____ Hazardous _____ Non-hazardous

Section 16 – Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any 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 watershed precautions have been taken to assure the safety of the consumer and handlers of the batteries, this information, concentrations and measurements only believed safe under certain precautionary guidelines for the safe handling and use of batteries in normal manner and for the purpose stated in the operating instructions. Each user of this product should be evaluated to determine if additional precautions are required. The information is provided in good faith and believed to be correct as of the date hereof. All terms used in this data document complies as such additional information.

*******End of report*******