Safety Data Sheet This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 Date of issue: 06/15/2018 Revision date: 06/15/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Article
Trade name	: Button type zinc-manganese dioxide alkaline batteries(1.5V LR1130)
Other means of identification	: Voltage : 1.5 V
	Battery Weight: 1.09 g
1.2. Recommended use and restriction	ns on use
Main use category	: Toy battery
Restrictions on use	: No information available.
1.3. Supplier	
Supplier	: Dongguan Guante Electronic Technology Co., Ltd
Address	: Hengtai Industry Buliding, Middle East City Road, Guancheng District, Dongguan City.
Phone	: 0086-0769-23102849
E-mail	: guantecell@163.com
1.4. Emergency telephone number	
1.4. Emergency telephone number +86-13912779466	
100-10012179400	
SECTION 2: Hazard(s) identificatio	n
2.1. Classification of the substance or	mixture
GHS-US classification	
Not classified	
2.2. GHS Label elements, including pr	ecautionary statements
GHS-US labeling	
Hazard pictograms (GHS-US)	: None
Signal word (GHS-US)	: None
Hazard statements (GHS-US)	: Not applicable
Precautionary statements (GHS-US)	: Not applicable
2.3. Other hazards which do not result	
	ay boost combustion of other substances that may vent, ignite and produce sparks when subjected to high mechanical damage); may burn rapidly with flare-burning effect; may ignite other batteries in clothes
	rd when used under reasonable conditions. If contact with the internal components of the battery may be s. Fire will produce irritating, corrosive and/or toxic gases
2.4. Unknown acute toxicity (GHS US)	

Not applicable

SECTIO	DN 3: Composition/Information on ingredients
3.1.	Substances
Not applic	cable
3.2.	Mixtures

Name	Product identifier	%	GHS-US classification
Manganese oxide (MnO2)	(CAS-No.) 1313-13-9	38	Acute Tox. 4, H302 Acute Tox. 4, H332
Iron	(CAS-No.) 7439-89-6	20	Not classified
Zinc	(CAS-No.) 7440-66-6	15	Not classified
Water	(CAS-No.) 7732-18-5	8	Not classified
Graphite	(CAS-No.) 7782-42-5	7	Not classified
Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl]	(CAS-No.) 32131-17-2	6	Not classified
Potassium hydroxide	(CAS-No.) 1310-58-3	6	Acute Tox. 4, H302 Skin Corr. 1A, H314

Full text of hazard classes and H-statements : see section 16

4.1. Description of first aid measures	
First-aid measures general	: No hazards which require special first aid measures.
	If you feel unwell, seek medical advice (show directions for use or safety data sheet if possible).
First-aid measures after inhalation	: There will be no dangerous during normal use. But breathe in a large number of batteries, or heat released from the gas, it will stimulate the respiratory tract and eyes.
	Remove to fresh air immediately. Get medical treatment immediately
First-aid measures after skin contact	: There will be no dangerous during normal use. But contacting battery electrolyte, may cause severe irritation or burns.
First-aid measures after eye contact	: There will be no dangerous during normal use. But contacting battery electrolyte can burn the eyes.
	Flush the eyes with plenty of clean water for at least 15 minutes immediately, without rubbing. Get immediate medical treatment.
	If appropriate procedures are not taken, this may cause eye injury.
First-aid measures after ingestion	 Ingestion of internal chemical materials may cause mouth, throat and intestinal irritation and damage.
	Rinse mouth Get medical attention Never give anything by mouth to an unconscious person
4.2. Most important symptoms and eff	fects (acute and delayed)
Symptoms/effects	: No information available.
4.3. Immediate medical attention and	special treatment, if necessary
Treat symptomatically.	
<u>, , , , , , , , , , , , , , , , , , , </u>	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extingui	·
Suitable extinguishing media	 CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Unsuitable extinguishing media	: No information available.
5.2. Specific hazards arising from the	chemical
Fire hazard	: Battery can be overheated by an external source or by internal shorting and develop metal hydroxide mist.
	Toxic vapor may release in case of fire.
	Thermal shock may cause battery case to crack open.
	Thermal shock may cause battery case to crack open.
	Thermal shock may cause battery case to crack open. Containers may explode when heated. Fire fighting water runoff and dilution water may be toxic and corrosive and may cause adverse
	Thermal shock may cause battery case to crack open. Containers may explode when heated. Fire fighting water runoff and dilution water may be toxic and corrosive and may cause adverse environmental impacts. Since vapour, generated from burning batteries may make eyes, nose and throat irritates, be sure to extinguish the fire on the windward side. Wear the respiratory protection equipment in
Toxic vapor may release in case of fire.	 Thermal shock may cause battery case to crack open. Containers may explode when heated. Fire fighting water runoff and dilution water may be toxic and corrosive and may cause adverse environmental impacts. Since vapour, generated from burning batteries may make eyes, nose and throat irritates, be sure to extinguish the fire on the windward side. Wear the respiratory protection equipment in some cases. Exposure to the ingredients contained within the battery pack could be harmful under some
Toxic vapor may release in case of fire. 5.3. Special protective equipment and	 Thermal shock may cause battery case to crack open. Containers may explode when heated. Fire fighting water runoff and dilution water may be toxic and corrosive and may cause adverse environmental impacts. Since vapour, generated from burning batteries may make eyes, nose and throat irritates, be sure to extinguish the fire on the windward side. Wear the respiratory protection equipment in some cases. Exposure to the ingredients contained within the battery pack could be harmful under some circumstances. Thermal decomposition can lead to release of irritating and toxic gases and vapors

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Other int	ormation	: Evacuate personnel to a safe area. Ensure adequate ventilation, especially in confined areas. Eliminate every possible source of ignition. Move containers from fire area if it can be done without personal risk. Cool tanks/drums with water spray/remove them into safety. Stay upwind/keep distance from source.
SECTI	ON 6: Accidental release meas	ures
6.1.	Personal precautions, protective equi	pment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerger	ncy procedures	: No open flames, no sparks, and no smoking. Avoid contact with skin, eyes and clothing. Do not breathe dust/fume/gas/mist/vapors/spray.
6.1.2.	For emergency responders	
Protectiv	re equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emerger	ncy procedures	: Stop leak if safe to do so. Evacuate personnel to a safe area. Ensure adequate ventilation, especially in confined areas.
6.2.	Environmental precautions	
Avoid re	lease to the environment.	
6.3.	Methods and material for containmen	t and cleaning up
For cont	ainment	: Collect spillage. Move containers from fire area if it can be done without personal risk. Contain large spillage with sand or earth.
Methods	for cleaning up	: Take up liquid spill into absorbent material. Clean up any spills as soon as possible, using an absorbent material to collect it. Notify authorities if product enters sewers or public waters.
Other in	formation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furth	er information refer to section 13.	
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precauti	ons for safe handling	: When packing the batteries, do not allow battery terminals to
		contact each other, or contact with other metals. Be sure to pack
		batteries by providing partitions in the packaging box, or in a
		separate plastic bag so that the single batteries are not mixed
		together.
		Use strong material for packaging boxes so that they will not be
		damaged by vibration, impact, dropping and stacking during
		their transportation.
		Do not short-circuit, recharge, deform, throw into fire or
		disassemble.
		Do not mix different type of batteries.
		Do not solder directly onto batteries.
		Insert the battery correctly in electrical equipment.

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7.2.	Conditions for safe storage	e, including any incompatibilities
Stora	ge conditions	: Store in a cool and dry area, but prevent condensation on cell or battery terminals.
		High temperature may damage the performance of the battery.
		Protect from physical damage and short circuits.
		To avoid risk of fire or explosion, keep sparks and other sources of ignition away from the battery.
		Do not allow metal objects to simultaneously contact both positive and negative terminal of batteries.
		Do not stack battery directly on another battery.
		Do not store batteries on electrically conductive surfaces.
		Keep containers tightly closed in a dry, cool and well-ventilated place
		Keep locked up and out of reach of children
		Keep away from food, drink and animal feeding stuffs
		Store in accordance with local regulations

SECTION 8: Exposure controls/personal protection

8.1. Control parameters			
Manganese oxide (MnO2) (1313-13-9)			
Not applicable			
Potassium hydroxide (1310-58-3)		
ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³	
NIOSH	NIOSH REL (ceiling) (mg/m ³)	2 mg/m³	
Iron (7439-89-6)			
Not applicable			
Zinc (7440-66-6)			
Not applicable			
Water (7732-18-5)			
Not applicable			
Graphite (7782-42-5)			
ACGIH	ACGIH TWA (mg/m³)	2 mg/m³ (all forms except graphite fibers-respirable particulate matter)	
OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m³ (synthetic-total dust) 5 mg/m³ (synthetic-respirable fraction)	
IDLH	US IDLH (mg/m ³)	1250 mg/m³	
NIOSH	NIOSH REL (TWA) (mg/m ³)	2.5 mg/m³ (natural-respirable dust)	
Poly[imino(1,6-dioxo-1	,6-hexanediyl)imino-1,6-hexanediyl] (32131-17-2)	
Not applicable			

8.2.	Appropriate engineering controls	
Appropria	ate engineering controls	Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Remove all sources of ignition.
Environm	ental exposure controls	Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Under normal condition of use and handling no special protection is required for sealed battery. In the event of battery case breakage, should be wear appropriate safety gloves

Eye protection:

Under normal condition of use and handling no special protection is required for sealed battery. Use appropriate safety glasses when there is the risk of splash

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Skin and body protection:

Under normal condition of use and handling no special protection is required for sealed battery. It is recommended to wear appropriate protective clothing when the battery case is broken.

Respiratory protection:

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

SECTION 9: Physical and chemica	Inronerties	
9.1. Information on basic physical and		
Physical state	: Solid	
Color	: Silvery shell	
Odor	: Odourless.	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: No data available	
Boiling point	: No data available	
Flash point	: Not applicable	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Not flammable	
Vapor pressure	: Not applicable	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: No data available	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: Not applicable	
Viscosity, dynamic	: Not applicable	
Explosion limits	: Not applicable	
Explosive properties	: Not an explosive	
Oxidizing properties	: No data available	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivi	ty	
10.1. Reactivity		
The product is non-reactive under normal con-	ditions of use, storage and transport.	
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal	conditions of use.	
10.4. Conditions to avoid		
	es, no sparks. Eliminate all sources of ignition. Avoid contact with incompatible materials	
10.5. Incompatible materials		
Oxidizing agent. Strong acid. Strong base.		
10.6. Hazardous decomposition produc		
-	azardous decomposition products should not be produced.	
SECTION 11: Toxicological inform		
44.4 Information on toxical original offer		

Information on toxicological effects 11.1. Acute toxicity

06/15/2018

: Not classified EN (English US)

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Manganese oxide (MnO2) (1313-13-9)	dance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
LD50 oral rat	9000 mg/kg
Potassium hydroxide (1310-58-3)	
LD50 oral rat	284 mg/kg
Iron (7439-89-6)	
LD50 oral rat	30 g/kg
Zinc (7440-66-6)	
LD50 oral rat	630 mg/kg
Water (7732-18-5)	
LD50 oral rat	> 90 ml/kg
	: Not classified
Skin corrosion/irritation Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated	: Not classified
exposure	
Aspiration hazard	: Not classified
Symptoms/effects	: No information available.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse
	effects in the environment.
Zinc (7440-66-6)	
LC50 fish 96h	0.168 mg/l
EC50 Crustaceans	0.86 mg/l
Potassium hydroxide (1310-58-3)	
LC50 fish 96h	80 mg/l
12.2. Persistence and degradability	
12.2. Fersistence and degradability	
No additional information available	
No additional information available	
No additional information available 12.3. Bioaccumulative potential	
12.3. Bioaccumulative potential	
12.3. Bioaccumulative potential	
12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil	
Bioaccumulative potential No additional information available	
12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil	
12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil	
I2.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil No additional information available 12.5. Other adverse effects	: No known effects from this product.
I2.3. Bioaccumulative potential No additional information available I2.4. Mobility in soil No additional information available	 No known effects from this product. No known effects from this product.

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SECTIO	SECTION 13: Disposal considerations	
13.1. E	Disposal methods	
Waste trea	tment methods	: Dispose of contents/container in accordance with licensed collector's sorting in

Product/Packaging disposal recommendations

orting instructions. : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information	
15.1. US Federal regulations	
Manganese oxide (MnO2) (1313-13-9)	
Listed on the United States TSCA (Toxic Substar	nces Control Act) inventory
Potassium hydroxide (1310-58-3)	
Listed on the United States TSCA (Toxic Substar	nces Control Act) inventory
CERCLA RQ	1000 lb
Iron (7439-89-6)	
Listed on the United States TSCA (Toxic Substar	ices Control Act) inventory
Zinc (7440-66-6)	
Listed on the United States TSCA (Toxic Substar Subject to reporting requirements of United State	
CERCLA RQ	454 kg no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 μ m
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
Graphite (7782-42-5)	
Listed on the United States TSCA (Toxic Substar	ces Control Act) inventory
Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6	j-hexanediyl] (32131-17-2)
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

15.2. International regulations	
CANADA	
Manganese oxide (MnO2) (1313-13-9)	
Listed on the Canadian DSL (Domestic Substances List)	
Potassium hydroxide (1310-58-3)	
Listed on the Canadian DSL (Domestic Substances List)	

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Iron (7439-89-6)
Listed on the Canadian DSL (Domestic Substances List)
Zinc (7440-66-6)
Listed on the Canadian DSL (Domestic Substances List)
Water (7732-18-5)
Listed on the Canadian DSL (Domestic Substances List)
Graphite (7782-42-5)
Listed on the Canadian DSL (Domestic Substances List)
Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] (32131-17-2)
Listed on the Canadian DSL (Domestic Substances List)
U-Regulations
Manganese oxide (MnO2) (1313-13-9)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Potassium hydroxide (1310-58-3)
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15.3. US State regulations	. US State regulations

No additional information available

SECTION 16: Other information	
Issue date	: 06/15/2018
Revision date	: 06/15/2018

Full text of H- and EUH-phrases:

H250	Catches fire spontaneously if exposed to air
H260	In contact with water releases flammable gases, which may ignite spontaneously
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled
H400	Very toxic to aquatic life
11400	
H410	Very toxic to aquatic life with long lasting effects
H410	
H410 Key or legend to abbrev	Very toxic to aquatic life with long lasting effects
H410 Key or legend to abbrev	Very toxic to aquatic life with long lasting effects iations and acronyms used in the safety data sheet
H410 Key or legend to abbrev ADR	Very toxic to aquatic life with long lasting effects iations and acronyms used in the safety data sheet European Agreement Concerning the International Carriage of Dangerous Goods by Road
H410 Key or legend to abbrev ADR IMDG	Very toxic to aquatic life with long lasting effects iations and acronyms used in the safety data sheet European Agreement Concerning the International Carriage of Dangerous Goods by Road International Maritime Dangerous Goods

Safety Data Sheet This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

Persistent, Bioaccumulative and Toxic
Very Persistent and Very Bioaccumulative
Derived No Effect Level
Predicted No Effect Concentration
Lethal Concentration 50
Lethal Dose 50
Effective Concentration 50
Time Weighted Average
Short Term Exposure Limit

Key literature references and sources for data

ECHA: http://echa.europa.eu/

IFA GESTIS: http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\$fn=default.htm\$vid=gestiseng:sdbeng

HSDB: http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

ICSC: http://www.ilo.org/dyn/icsc/showcard.home

eChemPortal: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

NITE-CHRIP: http://www.nite.go.jp/en/chem/chrip/chrip_search/srhInput

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product