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: 22/08/2019

Revision date: 22/08/2019

Version: 1.0

: Article
: Li-MnO2 Button Cell(Lithium Metal Battery) CR2032
: Voltage : 3V Lithium Weight: 0.052g Battery Weight: 3g
on use
: Power supply.
: No information available.
: CHANGZHOU JINTAN CHAOCHUANG BATTERY CO., LTD.
: Rm.13A10-11,Baoyuan Huafeng Headquarter Economy Building,Xiyang Rd.Bao'an District,Shenzhen,China.
511483
: +86-755-27597836
: +86-755-29369623
: boss@chaochuang.com

1.4. Emergency telephone number

+86-13510093096

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

The batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's risk of rupture, fire, heat, leakage of internal components, which could cause casualty loss.

In the case of rupture, the following hazards may expose:

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2

Reproductive toxicity, Category 1B

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)

Precautionary statements (GHS US)



Danger	
Causes skin	irı

:	Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child.
:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water/
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
	Take off contaminated clothing and wash it before reuse.

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Store locked up.

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

This product should not present a health hazard when used under reasonable conditions. If contact with the internal components of the battery may be irritating to skin, eyes and mucous membranes. Fire will produce irritating, corrosive and/or toxic gases. May damage fertility or the unborn child.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Stainless steel	(CAS-No.) 12597-68-1	50.5
Manganese oxide (MnO2)	(CAS-No.) 1313-13-9	30.99
Perchloric acid, lithium salt	(CAS-No.) 7791-03-9	4.00
Polypropylene	(CAS-No.) 9003-07-0	3.76
Propylene carbonate	(CAS-No.) 108-32-7	3.00
Graphite	(CAS-No.) 7782-42-5	2.17
Polytetrafluoroethylene	(CAS-No.) 9002-84-0	2.17
Lithium	(CAS-No.) 7439-93-2	1.91
Ethylene glycol dimethyl ether	(CAS-No.) 110-71-4	1.50

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

SECTION 4: First-aid measures	
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 effects	s (acute and delayed)
Symptoms/effects	This product should not present a health hazard when used under reasonable conditions. If contact with the internal components of the battery may be irritating to skin, eyes and mucous membranes. May damage fertility or the unborn child.
4.3. Immediate medical attention and spec	cial treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguis	hing media	
Suitable extinguishing media : Carbon dioxide, dry chemical, or foam		
Unsuitable extinguishing media	: No information available.	

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5.2.	Specific hazards arising from the chei	nical
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.
		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.
Toxic vapo	or may release in case of fire.	Thermal decomposition can lead to release of irritating and toxic gases and vapors
5.3.	Special protective equipment and pre-	cautions for fire-fighters
Protection	during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other info	rmation	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.

SECT	ION 6: Accidental release meas	ures
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel	
Emerge	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	
Protecti	ve equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emerge	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	elease to the environment.	
6.3.	Methods and material for containme	nt and cleaning up
For con	tainment	: Collect spillage. Move containers from fire area if it can be done without personal risk. Contain large spillage with sand or earth.
Method	s 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 furt	ner information refer to section 13.	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	ions 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.
- Hygiene measures
 : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

 Always wash hands after handling the product.

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7.2.	Conditions for safe storage, includi	ng any incompatibilities
Storag	e 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 (-20 - 45 $^\circ\text{C}_3$ humidity: 45-75%)
		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

Stainless steel (1259	7-68-1)	
Not applicable		
Polypropylene (9003	-07-0)	
Not applicable		
Manganese oxide (M	nO2) (1313-13-9)	
Not applicable		
Lithium (7439-93-2)		
Not applicable		
Perchloric acid, lithiu	um salt (7791-03-9)	
Not applicable		
Polytetrafluoroethyle	ene (9002-84-0)	
Not applicable		
Graphite (7782-42-5)		
ACGIH	ACGIH TWA (mg/m³)	2 mg/m ³ (all forms except graphite fibers-respirable particulate matter)
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m ³ (synthetic-total dust) 5 mg/m ³ (synthetic-respirable fraction)
IDLH	US IDLH (mg/m ³)	1250 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	2.5 mg/m ³ (natural-respirable dust)
Propylene carbonate	e (108-32-7)	
Not applicable		
Ethylene glycol dimethyl ether (110-71-4)		
Not applicable		
8.2. Appropriate engineering controls		
Appropriate 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.		

Environmental 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:

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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

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 chemic	al properties
9.1. Information on basic physical ar	id chemical properties
Physical state	: Solid
Color	: Metallic color
Odor	: Odourless.
Odor threshold	: No data available
рН	: Not applicable
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	: Not applicable
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 applicable
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions 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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Avoid contact with incompatible materials

10.5. Incompatible materials

Oxidizing agent. Strong acid. Strong base. Water. Seawater. Conductive materials

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological informat	Jance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
I1.1. Information on toxicological effects	
Acute toxicity	: Not classified
	. Not classified
Manganese oxide (MnO2) (1313-13-9)	
LD50 oral rat	9000 mg/kg
Propylene carbonate (108-32-7)	
LD50 oral rat	29000 mg/kg
LD50 dermal rabbit	> 3000 mg/kg
Ethylene glycol dimethyl ether (110-71-4)	
LD50 oral rat	> 4000 mg/kg
LD50 dermal rabbit	1000 - 2000 mg/kg
LC50 inhalation rat (mg/l)	20 - 63 mg/l (Exposure time: 6 h)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Polypropylene (9003-07-0)	
IARC group	3 - Not classifiable
Polytetrafluoroethylene (9002-84-0)	
IARC group	3 - Not classifiable
Contraductive toxicity	. Now domage fortility or the unbern shild
Reproductive toxicity Specific target organ toxicity – single exposure	: May damage fertility or the unborn child. : Not classified
specific target organ toxicity – single exposure	. Not classified
Specific target organ toxicity – repeated	
result anget organ toxicity reported	: Not classified
	: Not classified
	: Not classified
xposure	
exposure	: Not classified : Not classified
exposure	: Not classified
Aspiration hazard	: Not classified
Aspiration hazard SECTION 12: Ecological information 12.1. Toxicity	: Not classified
Aspiration hazard SECTION 12: Ecological information 2.1. Toxicity	: Not classified
Aspiration hazard SECTION 12: Ecological information 12.1. Toxicity Ecology - general	: Not classified : The product is not considered harmful to aquatic organisms or to cause long-term adverse
Aspiration hazard SECTION 12: Ecological information 2.1. Toxicity Ecology - general Propylene carbonate (108-32-7)	: Not classified : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Aspiration hazard SECTION 12: Ecological information 12.1. Toxicity Ecology - general Propylene carbonate (108-32-7) LC50 fish	 Not classified The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. > 1000 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
Aspiration hazard SECTION 12: Ecological information 2.1. Toxicity Ecology - general Propylene carbonate (108-32-7)	: Not classified : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
xposure Aspiration hazard SECTION 12: Ecological information 2.1. Toxicity Scology - general Propylene carbonate (108-32-7) LC50 fish	 Not classified The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. > 1000 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])

12.3. **Bioaccumulative potential**

Manganese oxide (MnO2) (1313-13-9)	
Log Pow	< 0 (at 20 °C)
Propylene carbonate (108-32-7)	
Log Pow	0.48 (at 25 °C)

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12.4. **Mobility in soil**

No additional information available

12.5. Other adverse effects			
	12.5.	Other adverse effects	

Effect on the global warming	: No known effects from this product.
GWPmix comment	: No known effects from this product.

SECTION 13: Disposal consideration	IS
13.1. Disposal methods	
Waste treatment methods Product/Packaging disposal recommendations	Dispose of contents/container in accordance with licensed collector's sorting 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	
Polypropylene (9003-07-0)	
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 Chemical Data Reporting Rule, (40 CFR 711).
Manganese oxide (MnO2) (1313-13-9)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
Lithium (7439-93-2)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
Perchloric acid, lithium salt (7791-03-9)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
Polytetrafluoroethylene (9002-84-0)	
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 Chemical Data Reporting Rule, (40 CFR 711).
Graphite (7782-42-5)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
Propylene carbonate (108-32-7)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
Ethylene glycol dimethyl ether (110-71-4)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
EPA TSCA Regulatory Flag	S - S - indicates a substance that is identified in a final Significant New Use Rule.
22/08/2010	EN /English LIS) 7/4

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45.2 International regulations	
15.2. International regulations CANADA	
Polypropylene (9003-07-0)	
Listed on the Canadian DSL (Domestic Substances List)	
Manganese oxide (MnO2) (1313-13-9)	
Listed on the Canadian DSL (Domestic Substances List)	
Lithium (7439-93-2)	
Listed on the Canadian DSL (Domestic Substances List)	
Perchloric acid, lithium salt (7791-03-9)	
Listed on the Canadian DSL (Domestic Substances List)	
Polytetrafluoroethylene (9002-84-0)	
Listed on the Canadian DSL (Domestic Substances List)	
Graphite (7782-42-5)	
Listed on the Canadian DSL (Domestic Substances List)	
Propylene carbonate (108-32-7)	
Listed on the Canadian DSL (Domestic Substances List)	
Ethylene glycol dimethyl ether (110-71-4)	
Listed on the Canadian DSL (Domestic Substances List)	
EU-Regulations	
Manganese oxide (MnO2) (1313-13-9)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical S	Substances)
Lithium (7439-93-2)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical S	Substances)
Perchloric acid, lithium salt (7791-03-9)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical S	Substances)
Graphite (7782-42-5)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical S	Substances)
Propylene carbonate (108-32-7)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical S	Substances)
Ethylene glycol dimethyl ether (110-71-4)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical S	Substances)
National regulations	
Stainless steel (12597-68-1)	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the TCSI (Taiwan Chemical Substance Inventory)	
Polypropylene (9003-07-0)	

Polypropylene (9003-07-0)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

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Polytetrafluoroethylene (9002-84-0)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)
Graphite (7782-42-5)
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Ethylene glycol dimethyl ether (110-71-4)
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15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information	
Issue date	: 22/08/2019
Revision date	: 22/08/2019

Key or legend to abbreviations and acronyms used in the safety data sheet

ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
ADN	European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterway
RID	Regulations Concerning the International Carriage of Dangerous Godds by Rail
PBT	Persistent, Bioaccumulative and Toxic
vPvB	Very Persistent and Very Bioaccumulative
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
LC50	Lethal Concentration 50
LD50	Lethal Dose 50
EC50	Effective Concentration 50
TWA	Time Weighted Average
STEL	Short Term Exposure Limit

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