

## **MSDS** Report

Report No.: AGC03484201201UA02

PRODUCT DESIGNATION : Lithium Ion Battery

BRAND NAME : N/A

MODEL NAME : L-053048-500mAh

APPLICANT : Shenzhen Xin Long Yu Power Tech Co., LTD.

DATE OF ISSUE : 2021-12-22

STANDARD(S) : GB/T16483-2008&ISO11014:2009

REPORT VERSION : V1.0



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# Material Safety Data Sheet GB/T16483-2008&ISO11014:2009

According to GB/T16483-2008&ISO11014:2009

Report Revise Re	ecord:	100 AO		30.
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	2021-12-22	Valid	Original report

## Section 1 - Chemical Product and Company Identification

Chemical product info				
Sample name	Lithium Ion Battery	Sample model	L-053048-500mAh	
Sample receiving date	2021-01-15	Sample uses	Toy battery	
Company information	Se 20	30 -60	.6 2	
Applicant	Shenzhen Xin Long Yu Power Tech Co. LTD.			
Client address	3F, Building A, Liyuan Industrial Zone, LianXin Road, Immovable Community, Liuzhou Street, Longgang District, Shenzhen			
Manufacturer	Shenzhen Xin Long Yu Power Tech Co. LTD.			
Manufacturer address	3F, Building A, Liyuan Industrial Zone, LianXin Road, Immovable Community, Liuzhou Street, Longgang District, Shenzhen			
Telephone	86-755- 89216895			
Fax number	86-755- 89216895			
Post code	515800			
Emergency telephone	86-18675508291			
E-mail	hhcsean@163.com			

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#### Section 2 - Hazards Identification

Emergency overview: No information available.

Classification according to GHS: Not a dangerous substance according to GHS.

Label Elements			
Hazard Pictogram (s)	No available		
Signal word	No available		
Hazard statement(s)	No available		
Precautionary St	tatement (s)		
Prevention	No available		
Response	No available		
Safe storage	No available		
Disposal	No available		

Physical and chemical risk: No information available.

Health hazard: No information available.

Environmental hazards: No information available.

Other hazards: No information available.

Section 3 - Composition, Information on Ingredients

Classification of the substance or mixture: ☐ Substance ☐ Mixture

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Chemical composition	CAS No.	EC#	Weight (%)
Lithium Cobalt Oxide	12190-79-3	235-362-0	29
Graphite	7782-42-5	231-955-3	20
Lithium Hexafluorophosphate	21324-40-3	244-334-7	10
Copper	7440-50-8	231-159-6	10
Aluminum	7429-90-5	231-072-3	21
PVDF	24937-79-9	200-867-7	1
Acetylene Black	1333-86-4	231-153-3	1
SBR	9003-55-8	618-370-2	8

Note: CAS Chemical Abstracts Service (Division of the American Chemical Society). EC#: European Inventory of Existing Commercial Chemical Substances

"---": No Data

#### Section 4 - First Aid Measures

General information: No special measures required.

**After inhalation:** Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

**After skin contact:** Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

**After eye contact:** Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

After swallowing: Do not induce vomiting. Get medical attention.

#### Acute and delayed effects

The main symptoms: No relevant details information.

Health effects: No relevant details information.

To protect the rescuers advice: No relevant details information.

**To the doctor's advice:** Need timely medical treatment and special symptoms, no relevant details information.

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## Section 5 - Fire Fighting Measures

**Suitable extinguishing agents:** Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO<sub>2</sub>.

**Special hazards arising from the substance or mixture:** Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature (>150°C (302°F)), when damaged or abused (e.g. mechanical damege or electrical overcharging); may burn rapidly with flare-burning effect; May ignite other batteries in clothes.

**Attention extinguishing method and protective measures:** Wear self-contained respirator. Wear fully protective impervious suit.

#### Section 6 - Accidental Release Measures

Homework personnel protective measures, protective equipment and emergency disposal procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

**Environmental precautions:** Do not allow material to be released to the environment without proper governmental permits.

Steps to be taken in case material is spilled or released and Waste disposal method: Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water. All waste must refer to the United Nations, the national and local regulations for disposal.

**To prevent the secondary disasters prevention measures:** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### Section 7 - Handling and Storage

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**Precautions for safe handling:** Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Ground containers when transferring liquid to prevent static accumulation and discharge.

**Information about fire and explosion protection:** Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

**Conditions for safe storage, including any incompatibilities:** Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

#### Section 8 - Exposure Controls, Personal Protection

#### Occupational exposure limit

Ingredients with limit values that re	quire monitoring at the workplace:
12190-79-3 Lithiur	m Cobalt Oxide
TLV (USA)	0.02mg/m <sup>3</sup> .
MAK(Germany)	0.1mg/m <sup>3</sup> .

Note:TLV: Threshold Limit Value

Biological limit: No relevant details information.

**Detection:** No relevant details information.

#### **Engineering control**

**General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

Respiratory protection: Use suitable respirator when high concentrations are present.

#### Personal protection

Hand protection	Eye protection	
Protective gloves	Tightly sealed goggles	

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#### Section 9 - Physical and Chemical Properties

Appearance	Blue
Form	Almost Cuboid
Odour	Odorless
Electrical prope	rties information
Voltage	3.7 V
Voltage Cell voltage	3.7 V 3.7 V

## Section 10 - Stability and Reactivity

Chemical stability: Stable in normal circumstances.

Possibility of hazardous reactions: Data not available.

Conditions to avoid: Flames, sparks, and other sources of ignition, incompatible materials.

Incompatibilities: Oxidizing agents, acid, base.

Hazardous combustible products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

## Section 11 - Toxicological Information

#### Information on toxicological effects

Acute toxicity LD / LC50 Values relevant for classification: Not avaiable.

LC50: (lethal concentration, 50 percent kill)

LD50: (lethal dose, 50 percent kill)

**Skin irritation / corrosion:** No further relevant information available.

Eyes stimulus / corrosion: No further relevant information available.

Breathing or skin irritation: No further relevant information available.

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Germ cell respectively: No further relevant information available.

Carcinogenicity: No further relevant information available.

Reproductive toxicity: No relevant details information.

Specific target organ system toxicity disposable contact: No further relevant information

Specific target organ system toxicity, repeated contact: No further relevant information available

Inhalation hazard: No further relevant information available.

Potentially harmful effects: No further relevant information available.

## Section 12 - Ecological Information

#### **Ecological toxicity**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

Behaviour in environmental systems

Bioaccumulative potential: No further relevant information available.

**Mobility in soil:** No further relevant information available.

**Ecological effects** 

Additional ecological information: No further relevant information available.

**General notes:** Do not allow material to be released to the environment without proper governmental permits.

Other adverse effects: No further relevant information available.

## Section 13 - Disposal Considerations

Waste treatment methods and Recommendation: Consult state, local or national regulations to ensure proper disposal.

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**Uncleaned packaging and Recommendation:** Disposal must be made according to official regulations.

## Section 14 - Transport Information

	IATA	IMDG		
UN number	UN3480 UN3481	UN3480 UN3481		
- LGC - LG	Lithium Ion Batteries	Lithium Ion Batteries		
UN proper shipping name	Lithium Ion Batteries Packed With Equipment	Lithium Ion Batteries Packed With Equipment		
	Lithium Ion Batteries Contained In Equipment	Lithium Ion Batteries Contained In Equipment		
Transport hazard class (es)	9	9		
Packing group	П	п		
Marine nollutant	No			

IATA: (International Air Transport Association)
IMDG: (International Maritime Dangerous Goods)

**Transport information:** The Lithium Battery (L-053048-500mAh 3.7V 500mAh) has passed the test UN38.3.

The package of battery (L-053048-500 mAh 3.7 V 500 mAh) should be complied with the requirements of Packing Instruction 965/966/967 of IATA DGR 62nd Edition for trainsportation.

The package of battery (L-053048-500 mAh 3.7 V 500 mAh) should be complied with the requirements of 188 of IMDG (39-18) of the <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (20th).

More information concerning shipping, testing, marking and packaging can be obtained from Label master at http://www.labelmaster.com.

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain.

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Note: Batteries weight in the package < 5 kg (By air, Batteries packed with equipment).

Note: Batteries weight in the package < 5 kg (By air, Batteries installed in equipment).

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

## Section 15 - Regulatory Information

MSDS (EC) No. 1907/2006.

This Material Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907 / 2006.

The following laws, regulations, rules and standards of the substance or mixture of

management to do the corresponding provisions:

Composition	CAS No.	IECSC	TSCA	DSL/NDSL	EINECS/ ELINCS/ NLP
Lithium Cobalt Oxide	12190-79-3	Listed	Listed	DSL	Listed
Graphite	7782-42-5	Listed	Listed	DSL	Listed
Lithium Hexafluorophosphate	21324-40-3	Listed	Listed	NDSL	Listed
Copper	7440-50-8	Listed	Listed	DSL	Listed
Aluminum	7429-90-5	Listed	Listed	DSL	Listed
PVDF	24937-79-9	Listed	Listed	DSL	Listed
Acetylene Black	1333-86-4	Listed	Listed	DSL	Listed
SBR	9003-55-8	Listed	Listed	DSL	Listed

EINECS: (European Inventory of Existing Chemical Substances)
ELINCS: (European List of Notified Chemical Substances)

DSL: (Canadian Domestic Chemical Substances)

IECSC: (Inventory of Existing Chemical Substances in China)
NDSL: (Canadian non-domestic Chemical Substances)

NLP:

TSCA: (TSCA Toxic Substances Control Act of USA)

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#### Section 16 - Additional Information

#### Declare to reader:

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Prepared by Checked by Approved by

王明 薛阵 放為伟

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