SDS

SAFETY DATA SHEET

According to 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Prepared For : Jiangxi Yunfuheng New Energy Co., Ltd.

Building 9, Double creation base, yichun economic and technological, development zone, Jiangxi, P.R.

China

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Report Number: KA2205180529A

Written by: Loach Wei Approved by: Hut King



According to 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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Version: V1.6

* The SDS is prepared based on the information provided by client. The contents and formats of this SDS are revised as per client's request.

client's request.					
	Section 1- Identifi	cation			
(a) Product identifier					
Product name	Rechargeable Lithium-ion Cell				
(b) Other means of iden	tification				
Product description	Model: YFH18650-2200mAh Nominal Voltage: 3.7V Nominal capacity: ,2200mAh Watt-hour: 8.14Wh Weight: 44.32g				
(c) Recommended use of	of the chemical and restrictions on use				
Recommended use	LITHIUM ION BATTERIES				
Uses advised against	No information available.				
(d) Details of the supplie	er of the safety data sheet				
Applicant Name	Jiangxi Yunfuheng New Energy Co., Ltd				
Applicant Address	1668#,The Windows of the modernbuild city, China	ing ,huaqiang north road, futian area, Shenzhen			
Manufacture Company	Jiangxi Yunfuheng New Energy Co., Ltd				
Manufacture Address	1668#,The Windows of the modernbuild city, China	ling ,huaqiang north road, futian area, Shenzhen			
Supplier Phone Number	+86-13760400070				
(e) Emergency telephon	e number				
+86-13760400070					
	Section 2- Hazards ide	entification			
1910.1200). This produc	t is an article which is a sealed battery a	Hazard Communication Standard (29 CFR and as such does not require an MSDS per the zards indicated are for a ruptured battery.			
Reproductive toxicity		Category 2			
Acute toxicity-Oral		Category 3			
Skin corrosion/ irritation		Category 1			
Specific target organ toxic	city-repeated exposure	Category 1			
(b) GHS Label elements	, including precautionary statements				
Emergency Overview					

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Signal word Danger

Hazard Statements

Suspected of damaging fertility or the unborn child

Toxic if swallowed

Causes severe skin burns and eye damage

Cause damage to organs through prolonged or repeated exposure.



Appearance: No infor	mation available Physical State: Solid Odor: No information available
P101	If medical advice is needed,,have product containet or label at hand
P201 P202 P260 P264 P270 P280 P308+P313 P301+P310 P321 P330 P301+P330+P331 P303+P361+P353 P363	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. dust/fume/gas/mist/vapours/spray Wear protective gloves/protective clothing/eye protection/face protection IF exposed or concerned: Get medical advice/ attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor/\u2026. Specific treatment (see on this label). Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304+P340 P310 P305+P351+P338 P314	Immediately call a POISON CENTER/doctor/\u2026 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.
P405	Store locked up.
P501	Dispose of contents/container to

(c) Hazards not otherwise classified (HNOC)

Not applicable

(d) Unknown Toxicity

32% of the mixture consists of ingredient(s) of unknown toxicity

(e) Other information

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Very toxic to aquatic life with long lasting effects

(f) Interactions with Other Chemicals

No information available.

Section 3- Composition/information on ingredients

Chemical Name	CAS Number	Weight (%)	Trade Secret
Lithium Cobalt Oxide (CoLiO ₂)	12190-79-3	39.85	*
Copper	7440-50-8	6.31	*
Graphite	7782-42-5	38.24	*
Phosphate(1-), hexafluoro-, lithium	21324-40-3	4.25	*
Aluminum foil	7429-90-5	11.35	*

[&]quot; * " The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4- First-aid measures

Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
 No further relevant information available.

Section 5- Fire-fighting measures

(a) Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

(b) Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

(c) Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

(d) Hazardous Combustion Products

Carbon oxides.

(e) Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6- Accidental release measures

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(a) 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.

(b) 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.

(c) 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

(a) Precautions for safe handling Handling

Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

(b) Conditions for safe storage, including any incompatibilities Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

Incompatible Products

Strong acids. Strong oxidizing agents. Strong bases

Section 8- Exposure controls/personal protection

(a) Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Graphite 7782-42-5	TWA: 3 mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Graphite in presence of Polycyclic aromatic hydrocarbons PAH
Lithium Cobalt Oxide (CoLiO ₂) 12190-79-3	TWA: 0.02 mg/m³	-	-
Phosphate(1-), hexafluoro-, lithium 21324-40-3	TWA:2.5mg/m³ F	TWA:2.5mg/m³ F TWA:2.5mg/m³ dust (vacated)TWA:2.5mg/m³	
Copper 7440-50-8	TWA:0.2mg/m³ fume TWA:1mg/m³Cu dust and mist	TWA:0.1mg/m³fume TWA:1mg/m³dust and mist (vacated) TWA:0.1mg/m³Cu	IDLH:100mg/m³dust ,fume and mist TWA:1mg/m³dust and mist

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				dust,fume,mist	TWA:0.1mg/m³ fume			
Alexania con fail	T \A	10.4	animalala function	TIMA A Fire of the 2 to tall threat	T\\\\\ \.4\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
Aluminum foil 7429-90-5	IVV	A:1mg/m³ res	spirable fraction	TWA:15mg/m³ total dust TWA:5mg/m³respirable	TWA:10mg/m³ total dust TWA:5mg/m³ respirable			
				fraction	dust			
				(vacated)				
				TWA:15mg/m³total dust (vacated) TWA:5mg/m³				
				respirable fraction(vacated)				
				TWA:5mg/m³ AL Aluminum				
				sts - Threshold Limit Value ble Exposure Limits Immediately Dange	erous to Life or Health			
				Court of Appeals decision in AF ion 15 for national exposure co				
(b) Appropriate 6	engine	ering contro	ols					
Showers								
Engineering Meas	ures	Eyewash sta						
(c) Individual pro	otectio	•		nal protective equipment				
Eye/Face Protection None requirements Face protection			red for consumer use. If there is a risk of contact:. Tight sealing safety goggles.					
Skin and body Protection		None require protective cl	red for consumer use. If there is a risk of contact:. Wear protective gloves and lothing.					
Respiratory Protection				eded under normal use conditic enced, ventilation and evacuati				
Hygiene Measure	es	or smoke whereuse. Avoid protection. Consequently before break	nen using this prod d contact with skin, Contaminated work aning of equipment ks and immediately	od industrial hygiene and safety luct. Take off contaminated clot eyes or clothing. Wear suitable clothing should not be allowed to work area and clothing is received after handling the product. For atted protective equipment before	hing and wash before e gloves and eye/face out of the workplace. ommended. Wash hands renvironmental protection,			
	Se	ection 9-	Physical a	nd chemical proper	ties			
Form			Solid					
Color			Green					
Odor			Not Available					
pH			Not Available					
Melting point/free	ezing p	oint	Not Available					
Boiling Point and	Boilin	g range	Not Available					

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Flash Point	Not Available
Upper/lower flammability or explosive limits	Not Available
Vapor Pressure	Not Available
Vapor Density	Not Available
Relative density	Not Available
Solubility in Water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Evaporation rate	Not Available
Flammability (soil, gas)	Not Available
Viscosity	Not Available
Sect	ion 10- Stability and reactivity
Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Exposure to air or moisture over prolonged periods. Excessive heat.
Incompatible materials	Acids. Bases. Oxidizing agent.
Hazardous Decomposition Products	Carbon oxides.
Section	n 11 – Toxicological information
Product Information	Product does not present an acute toxicity hazard based on known or supplied information. In case of rupture:
Eye contact	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.

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Ingestion	burns. (ba digestive a and stoma decrease. Swelling o	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.							
Component Information	n								
Chemical Name		Oral LD	50	Derm	nal LD50	Inhalation LC50			
Graphite 7782-42-5		> 10000 mg/k	g (Rat)	> 3 g/kg	g(Rabbit)	-			
Information on toxicolo	gical eff	fects							
Symptoms			(skin redne ashes. Hives.		ause redness	and tearing of the eyes.			
Delayed and immediate	effects	as well as chro	nic effects f	rom short	and long-term	exposure			
Sensitization:			May cause sensitization of susceptible persons. May cause sensitization by skin contact.						
Mutagenic Effects:		No informa	No information available.						
Carcinogenicity:	nicity:		The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Chemical Name		ACGIH	I.	ARC	NTP	OSHA			
Lithium Cobalt Oxide (CoLiO ₂) 12190-79-3		A3	Gro	oup 2B		Х			
Graphite 7782-42-5		A3	Gro	oup 2B		Х			
ACGIH (American Conference A3 - Animal Carcinogen IARC (International Agency of Group 2B - Possibly Carcinogen OSHA (Occupational Safety of X - Present Reproductive Toxicity	f or Researd enic to Hum	ch on Cancer) nans		nent of Labor)				
		No informa	No information available.						
STOT - single exposure		No informa	No information available.						
STOT - repeated exposure		on classific Standard (systemic to RE).							
Chronic Toxicity			Contains a known or suspected carcinogen. Avoid repeated exposure. Prolonged exposure may cause chronic effects. May cause adverse liver effects.						
Target Organ Effects			Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Central Vascular System (CVS).Kidney. Liver. Liver. Cardiovascular system. Systemic						

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Aspiration Hazard		No information available.					
Numerical me	easures of toxicity Pro	duct Information					
_	values are calculated	based on	ATEmix (d	oral):	12,905.00 mg/kg		
chapter 3.1 of	the GH3 document		ATEmix ((dermal):	10,200.00 mg/kg (ATE)		
	Secti	on 12- Ecol	ogical	information			
Ecological To	xicity	Very toxic to aqua	atic life with	n long lasting effects	i.		
Chemical name	Toxicity to Algae	Toxicity to F	ish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)		
Copper 7440-50-8	96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 0.0068 - 0.0156 mg/L (Pimephales promelas) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 0.8 mg/L (Cyprinus carpio) 96h LC50: = 1.25 mg/L (Lepomis macrochirus) 96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: < 0.3 mg/L			48h EC50: = 0.03 mg/L		
Graphite 7782-42-5					24h EC50: > 5600 mg/L		
Persistence a	nd Degradability	No information avai	ilable.				
Bioaccumula	ation	No information avai	ilable.				
Other adverse	e effects	No information available.					
	Section	on 13- Dispo	sal co	nsiderations			
Waste treatme	ent methods						
Disposal met	hods	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.					

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	Diamanal abasilal b	REPORT NO.: KA2205180529A
Contaminated Packaging	local laws and reg	e in accordance with applicable regional, national and gulations.
California Hazardous Waste Co		sted with the State of California as a hazardous waste.
Chemical Na		California Hazardous Waste
Lithium Cobalt Oxide	,	Toxic
12190-79-3	3	TOXIO
Copper 7440-50-8		Toxic
Aluminum fo 7429-90-5	oil	Ignitable powder
Se	ection 14 – Trar	nsport information
UN Number -DOT, IMDG, IATA	UN 3480 & UN 3481	
UN Proper shipping name -DOT, IMDG, IATA	Lithium ion Batteries c batteries) or;	ncluding lithium ion polymer batteries) or ; ontained in equipments (Including lithium ion polymer acked with equipment (Including lithium ion polymer
Rechargeable Lithium and has passed in ac subsection 38.3. The transportation of li Air Transport Associati of PACKING INSTRUC n), International Civil A oods Code and the US Lithium batteries shipp equipment",or "Lithium as "Dangerous Goods"		cordance with UN manual of Tests and Criteria, Part III, withium cells and batteries is regulated by the International ion (According to Section IB of PACKING INSTRUCTION CTION 966~967 of IATA DGR 63rd Edition for transportation in According to Transportation of International Maritime Dangerous Government of Transportation listed in 49 CFR 173.185. The dead as "Lithium batteries", "Lithium batteries packed with a batteries contained in equipment" may not be classified "when shipped in accordance with "special provision A45 cial provision 188 of IMO-IMDG Code"
Transport hazard class(es) -DOT, IMDG, IATA	9	
Environmental hazards	Yes(DOT)	
Marine pollutant	Symbol (fish and tree)	
Special precautions for user EMS Number	Warning: Miscellaneou F-A,S-N	us dangerous substances and articles
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable	
DOT Remarks:	Special marking with the	ne symbol (fish and tree)
IMDG Limited quantities (LQ) Excepted quantities (EQ)	0 Code: E0 Not permitted as Exce	pted Quantity

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	S	ectio	on 1	5- R	egula	atory	inforn	nation		10.220010002071	
(a) International I	nventories										
TSCA	Compli	es.									
DSL	All com	ponent	ts are I	isted e	ither on	the DSL	or NDS	L.			
(b) US Federal Re	'	-									
SARA 313	(SARA)	(SARA). This product conta				ne Superfund Amendments and Reauthorization Act of 1986 ains a chemical or chemicals which are subject to the reporting d Title 40 of the Code of Federal Regulations, Part 372.					
Chemical Name		CAS No				١	Neight-%	b		313 – Threshold Values %	
Lithium Cobalt Oxio (CoLiO ₂)	de	1219	90-79-3	3			15-40			0.1	
Copper			0-50-8				3-7			1.0	
Aluminum foil			9-90-5	<u> </u>			7-13			1.0	
SARA 311/312 Haz		ries	T								
Acute Health Hazar			No								
Chronic Health Hazard			No								
Fire Hazard			No								
Sudden release of pressure hazard Reactive Hazard			No No								
CWA (Clean Water Act)		This pollu	This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)								
Chemical Name		CWA - Reportable Quantities		le CWA - Pollut					С	WA - Hazardous Substances	
Copper 7440-50-8					Х	X X					
CER	CLA		haza	This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)							
Chemical Na	ame	Haz	ardous Substance RQs			Ext		azardous	,	RQ	
Copper 7440-50-			5	000 lb		RQ 50			5000 lb final RQ 2270 kg final RQ		
(c) US State Regu	ulations										
California Proposi	ition 65				This p	roduct co	ontains th	ne following P	ropositi	on 65 chemicals.	
Cl	hemical nam	е			California Proposition 65						
	hite – 7782-4							Carcinogen			
U.S. State Right-to			ns					Caroniogon			
Chemical Name	New Je			sachuse	etts	Pennsyl	lvania	Rhode Isl	and	Illinois	
Graphite 7782-42-5	X	-		Х		X				X	
Lithium Cobalt Oxi (CoLiO ₂) 12190-79-3		Х				х		Х		Х	
Aluminum 7429-90-5	Х			Х		Х		Х			
Copper 7440-50-8	Х			Х		Х		Х		X	

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(d) Inter	national Regulation	าร						
Mexico								
National	occupational expos	sure lin	nits					
	Component		Carcin	ogen	Status		Exposure Limits	
7	Graphite 7782-42-5 (15 - 40)						Mexico: TWA=3.5 mg/m ³	
	Aluminum 7429-90-5 (7 - 13)						Mexico: TWA= 10 mg/m ³	
	Copper 7440-50-8 (3 - 7)					Mexico: TWA= 1 mg/m ³ Mexico: TWA= 0.2 mg/m ³ Mexico: STEL= 2 mg/m ³		
Mexico - O	ccupational Exposure Limi	ts - Carci	inogens			•		
Canada								
WHMIS	Hazard Class		Not determined					
		S	ection 16-	Othe	er informati	ion		
NFPA	Health Hazards	1	Flammability	0	Instability	0	Physical and Chemical Hazards	-
HMIS	Health Hazards	2*	Flammability	0	Physical Hazard	0	Personal Protection	Х

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

******End of Safety Data Sheet*****