

# **MSDS**

# MATERIAL SAFETY DATA SHEET

Prepared For : Shenzhen Soshine Battery Co., Ltd

703#, Building A, JinKe Industrial Park, 310# Wuhe avenue, Guanlan

Town, Longhua District, Shenzhen 518110, P. R. China

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Prepare by: Water Short

Review by:



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

Section '	1-Chen	nical Pro	duc	t and C	ompany	/ Ider	ntification
Product Name	LiFePO <sub>4</sub> rechargeable battery						
Model	CR2-3.2-400 WITH CABLE						
Trade Mark	Soshine						
Ratings	3.0V, 400mAh, 1.2Wh						
Weight	About 11.2g						
Manufacturer	Shenzhen Soshine Battery Co., Ltd				Sacro.		
Manufacturer Address	703#, Building A, JinKe Industrial Park, 310# Wuhe avenue, Guanlan Town, Longhua District, Shenzhen 518110, P. R. China						
Emergency Telephone	+86-15889708703						
Fax							
	Secti	on 2- Co	mpo	sition	Informa	tion	
Chemical Composition		CAS No.	30	W	/eight (%)	8	Trade Secret
Lithium cobaltate	12190-79-3		10	35 - 60		-/0	
Graphite	7782-42-5			10 - 30		*	
Phosphate(1-), hexafluoro-, lithium	21324-40-3			10 - 30		*	
Copper	7440-50-8			7 - 13		A-	
Aluminium	7429-90-5			5 - 10		· C>	
Nickel	7440-02-0			1 - 5	-		
"*" The exact p	percentage	(concentratio	n) of c	omposition	has been w	ithheld a	as a trade secret.
^	Sec	tion 3- F	laza	rds Ide	ntificati	on	
Emergency overview:		N/A			/(	7	/(
Classification according	to GHS	Not a dangerous substance according to GHS					
Label elements:		I					
Hazard pictogram(s)		Not Available					
Signal word		Not Available					
Hazard statement(s)		Not Available					
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Precautionary statement(s):	(C) (C) ((				
Prevention	Not Available				
Response	Not Available				
Disposal	Not Available				
Environmental hazards:	No relevant information				
Important symptoms:	See section 11 for more information				
S	ection 4- First Aid Measures				
Eye contact	Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.				
Skin contact	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.				
Inhalation	Remove from exposure and move to fresh air immediately. Use oxygen if available.				
Ingestion	Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.				
Sec	tion 5- Fire Fighting Measures				
Flash Point	N/A				
Auto-Ignition Temperature	N/A				
Extinguishing Media	H <sub>2</sub> O, CO <sub>2</sub>				
Extinguishing Media	1120, 002				
Special Fire-Fighting Procedures	Self-contained breathing apparatus				
-					

#### Section 6- Accidental Release Measures

#### 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.

### **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.



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### 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.

canalization or waters.				
Sec	ction 7- Handling and Storage			
Handling	The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container.  Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire.  Do not crush or puncture the battery, or immerse in liquids.			
Storage	Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided.  Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.			
Other Precautions	The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.			
Section 8- E	Exposure Controls/Personal Protection			
Engineering Controls	Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor.  Keep away from heat and open flame. Store in a cool, dry place.			
Personal Protective Equipment	Respiratory Protection: Not necessary under normal conditions.  Skin and body Protection: Not necessary under normal conditions, Wear suitable protective clothing and gloves if handling an open or leaking battery. Hand protection: Wear suitable gloves if handling an open or leaking battery. Eye Protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.			
Other Protective Equipment	Have a safety shower and eye wash fountain readily available in the immediate work area.			
Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.			
Section 9	9- Physical and Chemical Properties			
Form	Solid			
Color	Blue			
Odour	Not Available			
рН	Not Available			
Melting point/freezing point	Not Available			
Boiling Point and Boiling range	Not Available			
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Not Available					
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tion 10- Stability and reactivity					
The product is stable under conditions described Section 7					
Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.					
Oxidizing agents, acid, base.					
Carbon monoxide, carbon dioxide, lithium oxide fumes.					
Not Available					
n 11 – Toxicological Information					
Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur.					
Not Available					
Not Available					
Not Available					
Not Available					
Not Available					



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Section 12- Ecological Information				
Ecological Toxicity	Not Available			
Mobility in soil	Not Available			
Persistence and Degradability	Not Available			
Bioaccumulation potential	Not Available			
Other Adverse Effects	Not Available			
Sect	tion 13- Disposal Considerations			
Product disposal recommendation	Observe local, state and federal laws and regulations.			
Uncleaned packaging recommendation	Disposal must be made according to official regulations			
Sec	ction 14 – Transport Information			
Label for conveyance	Lithium Battery Label			
UN Number	UN 3480 or UN3481			
Transport hazard class(es)	9			
Packing group	'C 'C			
Marine pollutant	No			
UN Proper shipping name	Lithium ion Batteries (Including lithium ion polymer batteries) Lithium ion Batteries packed with equipment (Including lithium ion polymer batteries) Lithium ion Batteries contained in equipments (Including lithium ion polymer batteries)			
Transport information.				

#### **Transport information:**

LiFePO<sub>4</sub> rechargeable battery (Sample Model: CR2-3.2-400 WITH CABLE) is tested and has passed in accordance with UN manual of Tests and Criteria, Part III, subsection 38.3.

The goods shall be complied with the requirements of Section IB~II of Packing Instruction 965 or of Section II of Packing Instruction 966 967 of 61st DGR Manual of IATA or special provision 188 of IMDG CODE (Amdt. 39-18).

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport, ensure that the goods will not falling, dropping, and breakage, Prevent collapse of cargo piles and wet by rain.

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

### **Section 15- Regulatory information**



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#### Law information

《Dangerous Goods Regulations》

《Recommendation on the Transport of Dangerous Goods Model Regulations》

《International Maritime Dangerous Goods》

《Technical Instructions for the Safe Transport of Dangerous Goods》

《Classification and code of dangerous Goods》

《Occupational Safety and Health Act》 (OSHA)

《Toxic Substance Control Act》(TSCA)

《Consumer Product Safety Act》(CPSA)

《Federal Environmental Pollution Control Act》(FEPCA)

《The Oil Pollution Act》(OPA)

《Superfund Amendments and Reauthorization Act Title III (302/311/312/313)》(SARA)

《Resource Conservation and Recovery Act》(RCRA)

《Safety Drinking Water Act》 (CWA)

《California Proposition 65》

《Code of Federal Regulations》(CFR)

In according with all Federal, State and local laws.

### **Section 16- Other Information**

The information above is believed to be accurate and represents the best information currently available to us. However, concorde makes no warranty of merchantability or any other 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 reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

\*\*\*\* END OF REPORT \*\*\*