MSDS

MATERIAL SAFETY DATA SHEET

Sample Description	Portable solar generator
Applicant	Shenzhen Sbase Electronics Technology Co., Ltd
Address	2/F,B Building,DajiaHao Square,XinAn Street,YuAn 2 nd Road,BaoAnDistrict, Shenzhen,GuangDong,P.R.China
Issue date	2019-01-07
Written by:	Approved by:

Report No.: BST190112113426LBR



Signal word

Shenzhen BST Technology Co., Ltd.

Material Safety Data Sheet

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	R	eference to ST/SG/A	AC.10/30/Rev.5 (GHS)	
Section	1-Chen	nical Product	and Company Ide	entification
Product Name	Portable solar generator			
Model	S650			
Ratings	11.1V,40Ah(equivalent:3.7V,120000mAh)			
Weight	5.0kg			
Manufacturer	Shenzhen Sbase Electronics Technology Co., Ltd			
Manufacturer address	2/F,B Building,DajiaHao Square,XinAn Street,YuAn 2nd Road,BaoAnDistrict, Shenzhen,GuangDong,P.R.China			
Emergency Telephone	0755-26016321			
Fax	0755-61104042			
E-mail	data@cnsbase.net			
	Secti	on 2- Compo	sition Information	1
Chemical Composition	Chen	nical Formula	CAS No.	Weight (%)
Lithium cobaltate		LiCoO ₂	12190-79-3	15 - 40
Graphite		C ₂₄ X ₁₂	7782-42-5	10 - 30
Phosphate(1-), hexafluoro-, lithium		LiPF ₆	21324-40-3	10 - 30
Copper		Cu	7440-50-8	7-13
Aluminium		Al	7429-90-5	5-10
Nickel		Ni	7440-02-0	1-5
	Sec	ction 3- Hazar	ds Identification	
Emergency overview: N/A				
Classification according to GHS		Not a dangerous substance according to GHS		
Label elements:				
Hazard pictogram(s)		No available		
			<u> </u>	

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No available



Hazard statement(s)	No available	
Precautionary statement(s):		
Prevention	No available	
Response	No available	
Disposal	No 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	Water, CO ₂	
Special Fire-Fighting Procedures	Self-contained breathing apparatus	
Unusual Fire and Explosion Hazards	Cell may vent when subjected to excessive heat-exposing battery contents	
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.	

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 wit sand, earth or other inert substance and contaminated area should be ventilated meantime.

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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.

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				
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- 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- Physical and Chemical Properties				

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Form	cuboid	
Color	Silver	
Odour	No available	
рН	No available	
Melting point/freezing point	No available	
Boiling Point and Boiling range	No available	
Flash Point	No available	
Upper/lower flammability or explosive limits	No available	
Vapor Pressure	No available	
Vapor Density	No available	
Relative density	No available	
Solubility in Water	No available	
Auto-ignition temperature	No available	
Decomposition temperature	No available	
Evaporation rate	No available	
Flammability (soil, gas)	No available	
Viscosity	No available	
Other information	11.1V,40Ah(equivalent:3.7V,120000mAh)	
Section 10- Stability and reactivity		
Stability	The product is stable under conditions described Section 7	
Conditions to Avoid	Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.	
Incompatible Materials	Oxidizing agents, acid, base.	
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.	
Possibility of Hazardous Reaction	Not Available	

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Section 11 – Toxicological Information			
Irritation	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.		
Sensitization	Not Available		
Neurological Effects	Not Available		
Teratogenicity	Not Available		
Reproductive Toxicity	Not Available		
Mutagenicity (Genetic Effects)	Not Available		
Toxicologically Synergistic Materials	Not Available		
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		
Section	on 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		
Section 14 – Transport Information			
Label for conveyance	Portable solar generator		
UN Number	UN 3480		
Transport hazard class(es)			
Packing group			
Marine pollutant	No		
UN Proper shipping name	Portable solar generator		

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Transport information:

The goods shall be complied with the requirements of Section II of Packing Instruction 965 of 60th DGR Manual of IATA or special provision 188 of IMDG CODE (Amdt. 38-16), including the passing of the UN38.3 test.

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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

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.

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