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MATERIAL SAFETY DATA SHEET

Report No: STS1609197M01

Issued for

Shenzhen YSFEN Communication Equipment Co.,Ltd

Room715, 7F, East building 2, Seg Science Park, Huaqiang North Rd, Futian district, Shenzhen, China

Product Name:	Li-lon battery	
Model Name:	M16	
Nominal Voltage:	DC 3.7V	
Typical Capacity:	7000mAh	
Brand:	-	
Version number:	V1.0	

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Shenzhen STS Test Services Co., Ltd. 1/F, Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China TEL: +86-755 3688 6288 FAX: +86-755 3688 6277 E-mail:sts@stsapp.com





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	01 Sep 2016	STS1609197M01	ALL	Initial Issue



Shenzhen STS Test Services Co., Ltd.

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Report No.: STS1609197M01

Section 1- Chemical Product and Company Identification

Product Identification:	Li-Ion battery	
Brand Name:	-	
Model Name:	M16	
Rated Power:	25.9Wh	
Manufacture's/Supplier Name:	Shenzhen YSFEN Communication Equipment Co.,Ltd	
Address:	Room715, 7F, East building 2, Seg Science Park, Huaqiang North Rd, Futian district, Shenzhen, China	
Connect Person:	MA XIU HONG	
Telephone:	+86-13510558962	
Email:	365252389@qq.com	
Preparation Date:	28 Sep 2016	
This MSDS was prepared by Shenzhen STS Test Services Co., Ltd.		
Item Number:	STS1609197M01	
Referenced documents:	ISO 11014:2009 Safety data sheet for chemical products	

Compiled by

(Gary wu)

Technical Manager

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(Vita Li)



Authorized Signatory :

Boney Janes

(Bovey Yang)



Section 2 – Hazards Identification

Preparation hazards and classification	Not dangerous with normal use. Do not dismantle, open or shred the Li-Ion Battery ingredients contained within or their ingredients products could be harmful.
Apperance, Color, and Odor	Solid object with no odor, no color.
Primary Route(s) of Exposure	These chemicals are contained in a sealed stainless steel enclosure. Risk of exposure occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, exposure to the electrolyte solution contained within can occur by Inhalation, Ingestion, Eye contact and Skin contact
Potential Health Effects	 ACUTE (short term): see Section 8 for exposure controls In the event that this battery has been ruptured, the electrolyte solution contained within the battery would be corrosive and can cause burns. Inhalation: Inhalation of materials from a sealed battery is not an expected route of exposure. Vapors or mists from a ruptured battery may cause respiratory irritation. Ingestion: Swallowing of materials from a sealed battery is not an expected route of exposure. Swallowing the contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. Skin: Contact between the battery and skin will not cause any harm. Skin contact with contents of an open battery can cause severe irritation or burns to the skin. Eye: Contact between the battery and the eye will not cause any harm. Eye contact with contents of an open battery can cause severe irritation or burns to the skin. Eye: Contact between the battery and the eye. CHRONIC (long term): see Section 11 for additional toxicological data
Medical Conditions Aggravated by Exposure	Not applicable
Reported as carcinogen	Not applicable

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Section 3 – Composition/Information on Ingredients

Hazardous Ingredients (Chemical Name)	Concentration / Concentration range	CAS Number
Lithium cobalt oxide	44.19	12190-79-3
Polyvinylidene Fluoride(PVDF)	0.35	24937-79-9
Aluminum	5.53	7429-90-5
Graphite	22.39	7782-42-5
Styrene-Butadiene Rubber (SBR)	0.7	61789-96-6
Carboxymethylcellulose	0.28	9000-11-7
Copper	9.58	7440-50-8
Lithium Hexafluorophosphate	16.97	21324-40-3

Li-Ion Battery is a mixture.

Labeling according to EC directives.

No symbol and risk phrase are required.

Note:CAS number is Chemical Abstract Service Registry Number

N/A=Not apply.

Section 4 – First-aid Measures

Inhalation	If contents of an opened battery are inhaled, remove source of contamination or move victim to fresh air. Obtain medical advice.
Skin contact	If skin contact with contents of an open battery occurs, as quickly as possible remove contaminated clothing, shoes and leather goods. Immediately flush with lukewarm, gently flowing water for at least 30 minutes. If irritation or pain persists, seek medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard.
Eye contact	If eye contact with contents of an open battery occurs, immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes while holding the eyelids open. Neutral saline solution may be used as soon as it is available. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to an emergency care facility.
Ingestion	If ingestion of contents of an open battery occurs, never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 mL (2-8 oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Quickly transport victim to an emergency care facility.



Section 5 – Fire-fighting Measures

Flammable Properties	In the event that this battery has been ruptured, the electrolyte solution contain within the battery would be flammable. Like any sealed container, battery cells may rupture when exposed to excessive heat; this could result in the release of flammable or corrosive materials.	
Suitable extinguishing Media	Use extinguishing media suitable for the materials that are burning.	
Unsuitable extinguishing Media	Not available	
Explosion Data	Sensitivity to Mechanical Impact: This may result in rupture in extreme cases Sensitivity to Static Discharge: Not Applicable	
Specific Hazards arising from the chemical	Fires involving Li-ion Battery an be controlled with water. When water is used, however, hydrogen gas may evolve. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended to extinguish the fire	
Protective Equipment and precautions for firefighters	As for any fire, evacuate the area and fight the fire from a safe distance. Wear a pressure-demand, self-contained breathing apparatus and full protective gear. Fight fire from a protected location or a safe distance. Use NIOSH/MSHA approved full-face self-contained breathing apparatus(SCBA) with full protective gear.	
NFPA	Health: 0 Flammability: 0 Instability: 0	

Section 6 – Accidental Release Measures

Personal Precautions, protective equipment, and emergency procedures	Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8.
Environmental Precautions	Prevent material from contaminating soil and from entering sewers or waterways.
Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.
Methods and materials for cleaning up	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal.



Section 7 – Handling and Storage

Handling	Don't handling Li-ion Battery ith metalwork. Do not open, dissemble, crush or burn battery. Ensure good ventilation/ exhaustion at the workplace. Prevent formation of dust. Information about protection against explosions and fires: Keep ignition sources away- Do not smoke.
Storage	If the Li-ion Battery are subject to storage for such a long term as more than 3 months, it is recommended to recharge the Li-ion Battery periodically.
	3 months: -10℃~+40℃, 45 to 85%RH
	And recommended at $0^{\circ}C \sim +35^{\circ}C$ for long period storage.
	The capacity recovery rate in the delivery state (50% capacity of fully charged) after storage is assumed to be 80% or more.
	The voltage for a long time storage shall be 3.7V-4.2V range.
	Do not storage Li-ion Battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.
	Keep out of reach of children.
	Do not expose Li-ion Battery to heat or fire. Avoid storage in direct sunlight.
	Do not store together with oxidizing and acidic materials.

Section 8 – Exposure Controls and 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 neoprene or nitrile rubber gloves if handling an open or leaking battery.
	Hand protection: Wear neoprene or natural rubber material 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.

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Section 9 - Physical and Chemical Properties

	Form: Solid
Physical State	Color: Silvery
	Odour: Monotony
Change in condition:	
pH, with indication of the conecentration	Not applicable
Melting point/freezing point	Not available.
Boiling Point, initial boiling point and Boiling range:	Not available.
Flash Point	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor Pressure:	Not applicable
Vapor Density: (Air = 1)	Not applicable
Density/relative desity	Not available.
Solubility in Water:	Insoluble
n-octanol/water partition coefficient	Not available.
Auto-ignition temperature	130°C
Decomposition temperature	Not available.
Odout threshold	Not available.
Evaporation rate	Not available.
Flammability (soil, gas)	Not available.
Viscosity	Not applicable

Section 10 - Stability and Reactivity

Stability	The product is stable under normal conditions.
Conditions to Avoid (e.g. static discharge, shock or vibration)	Do not subject Li-ion Battery to mechanical shock. Vibration encoutered during transportation does not cause leakage, fire or explosion.
	Do not disassemble, crush, short or install with incorrect polarity. Avoid mechanical or electrical abuse.
Incompatible Materials	Not Available
Hazardous Decomposition Products	This material may release toxic fumes if burned or exposed to fire
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
Teratoaenicitv	Not Available
Reproductive Toxicity	Not Available
Mutagenicity (Genetic Effects)	Not Available
Toxicologically Synergistic Materials	Not Available

Section 12 - Ecological Information

General note:	Water hazard class 1(Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Anticipated behavior of a chemical product in environment/possible environmental impace/ecotoxicity	Not Available
Mobility in soil	Not Available
Persistence and Degradability	Not Available
Bioaccumulation potential	Not Available
Other Adverse Effects	Not Available

Section 13 – Disposal Considerations

Product disposal recommendation: Observe local, state and federal laws and regulations.

Packaging disposal recommendation: Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassembly the battery. Completely discharge containers(no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local, state and federal laws and regulations.

Section 14 – Transport Information

oncorde's Li-ion Battery comply with the UN Recommendations on the Transport of Dangerous Goods; IATA Dangerous Goods regulations, and applicable U.S. DOT regulations for the safe transport of Li-ion Battery. Batteries containing these cells should be transported as Class 9 hazardous material, except for those battery types declared to be exempt (contact Concorde for a current listing of exempt batteries) and/or the Li-ion Battery have been tested under provisions of the UN Manual of Tests and Criteria, Part III, sub-section 38.3 and are classified as non-dangerous goods.

The Li-ion Battery according to NEW PACKING INSTRUCTION 965~967 of IATA DGR 57th Edition for transportation.

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Each package had labeled with a Lithium Battery handling label.

The following information is provided for domestic and international transport.

UN number: 3480 or 3481 Packing group: II UN Proper shipping name(technical name): LITHIUM BATTERIES Marine pollutant(Y/N) Y Label: 9 Land transport ADR/RID (cross-broder): 9 ADR/RID class: 9 Miscellaneous dangerous substances and articles Danger code(Kemler): 9 UN-Number: 9480 or 3481 Packaging group: II Marine pollutant(Y/N): N Label: 9 Description of goods: 3480 or 3481 Sea transport IMDG: 9 IMDG Class: 9 UN Number: 3480 or 3481 Label: 9 Packaging group: II IMDG Class: 9 UN Number: 3480 or 3481 Label: 9 Packaging group: II EMS Number: F-A, S-I Marine pollutant(Y/N): Y Special regulate: IMO 188 Propper shipping name: Lithium batteries Air transport ICAO-TI and IATA-DGR: 9 Packaging	DOT regulations:			
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Section 15 - Regulatory Information

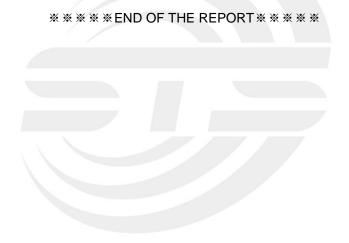
OSHA hazard communication standard (29 CFR 1910.1200)

_____ Hazardous ____ Non-hazardous

Section 16 - Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, concord 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.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.



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