SAFETY DATA SHEET (SDS)

www.mycharge.com

SECTION 1: IDENTIFICATION

PRODUCT NAME:	Lithium-Ion Battery for myCharge Razor Turbo 12K
USE:	Battery Designated for recharge.
MODEL(S):	RZQC12**-* (3.7V, 44.4Wh)
IMPORTER:	**RFA Brands, LLC d/b/a myCharge** 123 W. Brown Street, Birmingham, MI 48009 +1 (888) 251-2026

EMERGENCY CONTACT:

For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
CALL CHEMTREC DAY OR NIGHT

Within USA and Canada: +1 (800) – 424 – 9300

Outside USA and Canada: +1 (703) – 527 – 3887
(Collect Calls Accepted)

***For emergency calls only. Non-emergency calls cannot be serviced at this number.**

SECTION 2: HAZARD(S) IDENTIFICATION

IN GENERAL

This product is not dangerous during normal use. Do not dismantle, open or shred lithium-ion battery. In the event that the battery is ruptured, the electrolyte solution contained within the battery would be corrosive and may cause chemical burns upon contact with the skin.

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 battery cell can occur by inhalation, ingestion, eye contact and skin contact.

POTENTIAL HEALTH EFFECTS

INHALATION	Contents of a leaking cell or battery may cause respiratory irritation.
INGESTION	Swallowing a cell or battery may be harmful. Contents of a leaking cell or battery may cause serious chemical burns of the mouth, esophagus, and gastrointestinal tract.

SKIN CONTACT	Contents of a leaking cell or battery may cause skin irritation.
EYE CONTACT	Contents of a leaking cell or battery may cause severe irritation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
INGREDIENT(S)	**CONCENTRATION (%)**	**CAS NO.**
Lithium Cobalt Oxide ($CoLiO_2$)	10-30	12190-79-3
Graphite	10-30	7782-42-5
Phosphate (1-), hexafluoro-, Lithium	10-30	21324-40-3
Lithium manganese oxide (LiMn2O4)	7-13	12057-17-9
Copper	7-13	7440-50-8
Aluminum foil	3-7	7429-90-5

SECTION 4: FIRST-AID MEASURES	
INHALATION	If internal contents of the battery are inhaled, remove source of contamination and move victim to fresh air. Provide oxygen if having difficulty breathing. Seek medical attention.
INGESTION	Drink large amounts of water. DO NOT INDUCE VOMITING or aspiration into the lungs may occur and cause injury. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Immediately seek medical attention. NOTE: If ingestion of battery contents occurs, never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing.
SKIN CONTACT	If skin comes in contact with contents of an open battery, immediately remove contaminated clothing, shoes and leather goods. Thoroughly wash extraneous matter and contact region with soap and lukewarm water for at least 30 minutes. If irritation or pain persists, seek medical attention. NOTE: Completely decontaminate clothing, shoes and leather goods before reuse or discard.
EYE CONTACT	Do not rub eyes. Immediately flush eyes with water continuously for at least 30 minutes, lifting upper and lower lids, until no evidence of the chemical remains. Neutral saline solution may be used as soon as it is available. Take

	care not to rinse contaminated water into the unaffected eye or onto face. Immediately seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES	
FLAMMABLE PROPERTIES	In the event that this battery has been ruptured, the electrolyte solution contained 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.
EXTINGUISHING MEDIA:	Water, carbon dioxide gas, nitrogen gas, dry chemical powder or foam.
SPECIAL FIRE-FIGHTING PROTECTIONS OR EQUIPMENT:	When the battery burns with other combustibles simultaneously, take fire extinguishing method which corresponds to the combustibles. As for any fire, evacuate the area and fight the fire from a safe distance. Wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
HAZARDOUS COMBUSTION PRODUCTS:	When burned, hazardous products of combustion including fumes of carbon monoxide, carbon dioxide and hydrogen fluoride can occur.
UNUSUAL FIRE/EXPLOSION HAZARDS:	In the event that the battery cells rupture, the electrolyte solution contained within the cells is 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. If heated above 130ºC, cell(s) may swell/explode/vent. Fires involving lithium-ion batteries can 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES	
IN GENERAL	(1) Restrict access to area until completion of clean-up. Do not touch spilled material. Wear adequate personal protective equipment. (2) It is recommended to leave the area to allow the batteries to cool and the vapors to dissipate. Provide maximum ventilation. (3) Cell/battery materials should be collected in a leak proof container. Remove spilled liquid with absorbent (dry sand or earth) and dispose of in accordance with Section 13.
METHODS AND MATERIALS FOR CLEAN UP	Absorb spilled material with an inert absorbent (e.g., dry sand or earth). Scoop contaminated absorbent into a leak proof 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.
To clean up leaking cells or batteries, take following precautions:	
Ventilation Requirements:	Room ventilation may be required in areas where there are open or leaking cells and batteries.
Respiratory Protection:	Avoid exposure to electrolyte fumes from open or leaking cells and batteries. Use self-contained breathing apparatus (SCBA) as necessary.
Eye Protection:	Wear safety glasses with side shield if handling an open or leaking cell or battery.
Body/Gloves:	Use neoprene or natural rubber gloves if handling an open or leaking cell or battery. Wear steel toed shoes when handling large containers. Wear protective clothing if handling open or leaking cell/battery.

SECTION 7: HANDLING AND STORAGE	
HANDLING:	Accidental short circuit for a few seconds will not seriously affect the battery. However, this battery is capable of delivering very high short circuit currents. Prolonged short circuits will cause high temperatures that can cause skin burns. Do not disassemble, modify or deform the battery. Never expose cells or battery to fire, high temperatures, water, or strong oxidizers. Do not subject the cell or battery to strong mechanical shock. Do not connect the positive terminal to the negative terminal with electrically conductive material. Insulating and tear proof materials are recommended. Do not crush or puncture the battery or immerse in liquids.

STORAGE:	Store in a cool, well-ventilated area. Elevated temperature can result in reduced battery life and degrade performance. Do not place the cell or battery near heating equipment or expose the cell or battery to direct sunlight for long periods.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION	
VENTILATION CONTROLS	Not necessary under conditions of normal use. If battery ruptures, 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.
RESPIRATORY PROTECTION:	Not necessary under conditions of normal use. If battery ruptures, avoid breathing dust and processing vapors. When adequate ventilation is not available, wear a NIOSH/MSHA respirator with air cylinder and/or dust mask to protect against inorganic dusts.
HAND PROTECTION:	Not necessary under conditions of normal use. If battery ruptures, protective gloves are recommended. Wash hands and contaminated skin thoroughly after handling.
EYE PROTECTION:	Not necessary under conditions of normal use. Use good industrial practice to avoid eye contact. Processing of this product releases vapors or fumes which may cause eye irritation. Goggle or protective glasses designed to protect against liquid splashes should be used, along with making eye flushing equipment available.
SKIN AND BODY PROTECTION:	Not necessary under conditions of normal use. Minimize skin contamination by following good industrial hygiene practices. Working clothes with long sleeve and long trousers and protective gloves are recommended. Steel toed boots also recommended for handling large containers. Wash hands and contaminated skin thoroughly after handling.
OTHER SAFETY PRECAUTIONS	Have a safety shower and eye wash fountain readily available in the immediate work area. Do not eat, drink, or smoke in work area. Maintain good housekeeping.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Solid
Odor:	N/A
Odor Threshold:	N/A
Physical State:	Solid

pH:	N/A
Melting Point:	N/A
Freezing Point:	N/A
Boiling Point:	N/A
Flash Point:	N/A
Evaporation Rate:	N/A
Flammability (solid, gas):	N/A
Flammability Limit - Upper/ Flammability Limit - Lower (%):	N/A
Vapor Pressure:	N/A
Vapor Density (Air=l):	N/A
Specific Gravity:	N/A
Solubility in Water:	Insoluble
Solubility (Other):	N/A
Partition Coefficient (n-Octanol/water):	N/A
Auto Ignition Temperature:	130ºC
Decomposition Temperature:	N/A
Viscosity	N/A

SECTION 10: STABILITY AND REACTIVITY	
STABILITY	Stable during normal handling and use.
MATERIALS TO AVOID:	Conductive materials, water, seawater, strong oxidizers and strong acids.
CONDITIONS TO AVOID:	None during normal operation. Avoid exposure to direct sunlight and high humidity. A battery cell exposed to an external short-circuit, crushing or other physical damage, unauthorized modification or elevated temperatures, the cells or battery may cause excess heat generation or potential ignition of fire. Do not subject Li-ion Battery to mechanical shock. However, vibration encountered during transportation does not usually cause leakage, fire or explosion.
HAZARDOUS DECOMPOSITION PRODUCTS	This material may release toxic fumes if burned or exposed to fire. If cells are opened, hydrogen fluoride and carbon monoxide may be released.

SECTION 11: TOXICOLOGICAL INFORMATION	
IN GENERAL	This product does not elicit toxicological properties during normal handling and use. Lithium ion cells and batteries are not hazardous waste. Sensitization: No Acute Toxicity: No Teratogenicity: No Reproductive Toxicity: No
ADDITIONAL INFORMATION	Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. Exposure to internal contents of batteries may cause irritation to the skin, eyes and mucous membranes. Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation.

This product does not contain any kinds of the following substances and halogen-type flame retardants including Chlorine and Bromide type harmful flame retardants which are listed in appendix of TCO documents and relevant international ECO requirements.

- Polybromated Biphenyls (PBB)
- Polybromated Biphenyl Ethers (PBBE)
- Polybromated Biphenyl Oxides (PBBO)
- Polybromated Diphenylethers (PBDE)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Diphenylethers (PCDE)
- Tetrabromphisphenol A (TBBPA)
- Asbestos, Antimonytrioxide, Dioxine

None of the following substances will be exposed, leaked, or emitted during transportation, storage or any operation and any temperature condition:

- Chlorinated Fluorohydrocarbon (FCKW)
- Acrylonitride
- Styrol
- Phenol
- Benzol
- Mercury of great less than 0.0001 wt% for alkaline battery
- Mercury of great less than 0.0005 wt% for other battery

- Lithium content of great less than 0.5g/cell, 1.5g/battery
- Cadmium, lead, and other harmful heavy metal

This product does not contain mercury, cadmium and lithium-metal.

Caution: If the cells are opened through misuse or damage, discard immediately. Internal components of cell are irritants and sensitizers.

SECTION 12: ECOLOGICAL INFORMATION (NON-MANDATORY)	
IN GENERAL	This product is not expected to cause toxicity to the environment. Some materials within the cell are bio-accumulative. Under normal conditions, these materials are contained and pose no risk to persons or the surrounding environment. When disposed, keep away from water, rain and snow. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
ENVIRONMENTAL PRECAUTIONS	Prevent material from contaminating soil and from entering sewers or waterways.

SECTION 13: DISPOSAL CONSIDERATIONS (NON-MANDATORY)	
DISPOSAL METHODS:	• Waste disposal must be in accordance with the applicable federal, state and local regulations. • Disposal of the lithium-ion cells or batteries should be performed by permitted, professional disposal. • Incineration should never be performed.
DISPOSAL CONSIDERATIONS	If batteries are still fully charged or only partially discharged, they can be considered a reactive hazardous waste because of significant amount of uncreated or unconsumed lithium remaining in the spent battery. The batteries must be neutralized through an approved secondary treatment facility prior to disposal as a hazardous waste. Recycling of battery can be done in authorized facility through a licensed waste carrier.
ENVIRONMENTAL CONCERNS	Do not discharge battery or cell contents into drains, surface waters or groundwater.

SECTION 14: TRANSPORT INFORMATION (NON-MANDATORY)	
IATA:	**Proper Shipping Name:** Lithium ion batteries /packed with equipment/ contained in equipment
	UN Number: Not restricted
	Hazard Class: Not restricted
	Packing Group: Not restricted
	The battery has passed the test items of UN Model Regulations, Manual of Tests and Criteria, Part III, sub-section 38.3.According to IATA DGR 60th Edition, PACKING INSTRUCTION 965 of section IB for transportation.

SECTION 15: REGULATORY INFORMATION (NON-MANDATORY)
The regulatory information included here should not necessarily be considered all inclusive. Special requirements should be handled in accordance with relevant federal, state and local regulations.
OSHA Hazard Communication Standard (29 C.F.R. § 1910.1200): Non-Hazardous

SECTION 16: OTHER INFORMATION	
DATE PREPARED	August 2, 2019

NOTE: The information provided in this safety data sheet is based on current knowledge about the product and current legal requirements and standards. It relates specifically to health, safety and environmental requirements and standards, may not identify all hazards associated with the product or its uses or misuses, does not signify any warranty with regard to the properties of the product, and only applies when the product is used for the purposes indicated in Section 1. This product is not sold as suitable for other purposes and such other usage may cause risks not mentioned in this safety data sheet.

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