



Mathews Associates, Inc.

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION	
IDENTITY: BB-2590A/U MIL-PRF-32383/3-3, 8.2Ah / 267 Wh NSN: 6140-01-633-9444	DATE PREPARED AUGUST 2018
MANUFACTURER'S NAME Mathews Associates, Inc.	EMERGENCY TELEPHONE NUMBER INFOTRAC 800-535-5053 (US) +1-352-323-3500 (International)
ADDRESS 220 Power Court Sanford, FL 32771 USA	TELEPHONE NUMBER FOR INFORMATION Tele: 407-323-3390 Fax: 407-323-3115 e-mail : www.sales@maifl.com website: www.maifl.com

SECTION 2 – HAZARD(S) IDENTIFICATION	
PRIMARY ROUTE OF EXPOSURE	NO
POTENTIAL HEALTH EFFECTS	
Inhalation: No effect under routine handling and use.	
Skin Contact: No effect under routine handling and use.	
Eye Contact: No effect under routine handling and use.	
Ingestion: No effect under routine handling and use.	
Specific Hazards:	
Existing Conditions Aggravated by Exposure: No effect under routine handling and use.	

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS			
HAZARDOUS COMPONENTS (of the Lithium Ion cell)	OSHA PEL	ACGIH TLV	% of contents
Nickel Compound	N/A	N/A	0-25 w/w
Manganese Compound	N/A	N/A	0-15 w/w
Cobalt Compound	N/A	N/A	4-50 w/w
Styrene Butadiene Rubber (SBR)	N/A	N/A	<1
Polyvinylidene Fluoride (PVDF)	N/A	N/A	<5
Aluminum Foil	N/A	N/A	2-10 w/w
Copper Foil	N/A	N/A	2-10 w/w
Graphite	N/A	N/A	10-30 w/w
Electrolyte (proprietary)	N/A	N/A	10-20 w/w
Lithium Hexafluorophosphate	N/A	N/A	<5
Stainless steel, Nickel and inert materials	N/A	N/A	Remainder

SECTION 4 – FIRST AID MEASURES
EXPOSURE TO INTERNAL MATERIALS DUE TO OUTER CASING DAMAGE:
Inhalation: Leave area immediately and seek medical attention.
Eye Contact: Rinse eyes with water for 15 minutes and seek medical attention.
Skin Contact: Wash area thoroughly with soap and water and seek medical attention.
Ingestion: Seek medical attention immediately.

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SECTION 5 – FIRE - FIGHTING MEASURES			
Flash Point	FLAMMABLE LIMITS	LEL	UEL
N/A °C		N/A %	N/A %
Autoignition Temperature: Temperature over 125°C (257°F) batteries may burst and release hazardous fumes / and or material.			
Extinguishing Media: Use extinguishing media suitable for the materials that are burning. Water, Carbon dioxide, Dry Chemical, Foam, etc.			
Fire-Fighting Program: If possible, remove cell(s) from fire fighting area. If heated above 125°C, cell(s) can explode/vent.			
Special Equipment for Fire Fighters: Use NIOSH/MSHA approved full-face SCBA (self-contained breathing apparatus) with full protective gear.			
Unusual Fire Or Explosion Hazards: Cell is not flammable but internal organic material will burn if the cell is incinerated. Combustion products include, but are not limited to hydrogen fluoride, carbon monoxide and carbon dioxide.			
SECTION 6 – ACCIDENTAL RELEASE MEASURES			
ON LAND: Place material into suitable containers and call local fire/police department.			
IN WATER: If possible, remove from water and call local fire/police department.			
SECTION 7 – HANDLING AND STORAGE			
HANDLING: No special protective clothing required for handling individual cells.			
STORAGE: Store in a cool, dry place.			
SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION			
Respiratory Protection: None under normal use conditions. SCBA required in the event of a fire.			
Skin Protection: None under normal use conditions. Use gloves when handling leaking batteries.			
Eye/Face Protection: None under normal use conditions. Wear safety glasses when handling leaking batteries.			
Foot Protection: Steel toed shoes recommended for large container handling.			
SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES			
Boiling Point:	N/A	Specific Gravity:	N/A
Vapor Density:	N/A	Melting Point:	N/A
Vapor Pressure:	N/A	Evaporation Rate:	N/A
Solubility in Water:	Insoluble	pH:	N/A
Appearance and Odor: The contents of the battery cells are dark in color. Physical phase is solid. The odor is none.			

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SECTION 10 – STABILITY AND REACTIVITY		
Stability:	Unstable	
	Stable	X
Incompatibility:	None (during normal operation). Avoid exposure to heat, open flame, and corrosives.	
Conditions to Avoid:	Exposure to heat and open flame. Do not puncture, crush or incinerate.	
Materials to Avoid:	Water, Heat, and Acid Material	
Hazardous Decomposition Products:	None (during normal condition). If cells are opened, hydrogen fluoride and carbon monoxide may be released.	

SECTION 11 – TOXICOLOGICAL INFORMATION
Cell manufacturer reports none.

SECTION 12 – ECOLOGICAL INFORMATION
Possible Environmental Effects / Environmental Mobility: Cell manufacturer reports none.

SECTION 13 – DISPOSAL CONSIDERATIONS
Dispose in accordance with all applicable federal, state, and local environmental regulations. Recycling or reclamation should be considered.

SECTION 14 – TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR): Proper Shipping Name: Lithium Ion Batteries Hazard Class or Division: 9 Identification Number: 3480 Packing Group: II Packaging Instruction: 173.185 Environmental Hazards: See section 12 Marine Pollutant: No Transport in Bulk: No

International Air Transportation (ICAO/IATA): Proper Shipping Name: Lithium Ion Batteries Hazard Class or Division: 9 Identification Number: 3480 Packing Group: II Packaging Instruction: 965 Environmental Hazards: See section 12 Marine Pollutant: No Transport in Bulk: No
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Water Transportation (IMO/IMDG): Proper Shipping Name: Lithium Ion Batteries Hazard Class or Division: 9 Identification Number: 3480 Environmental Hazards: See section 12 Marine Pollutant: No Transport in Bulk: No
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SECTION 15 – REGULATORY INFORMATION

UN (United Nations): Recommendations on the Transportation of Dangerous Goods Model Regulations
ICAO (International Civil Aviation Organization): Technical Instructions for the safety transport of dangerous
IATA (International Air Transport Organization): Dangerous Goods Regulations
IMO (International Maritime Organization): International Maritime Dangerous Goods (IMDG) Code

SECTION 16 – Other

Date Prepared: 29AUGUST2018

For further information contact SAMSUNG SDI sales representative.

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