

MSDS 71186335

Ultralife UBBL22 verbaut in Gerät = Lithium ion batteries contained in equipment UN3481

Produkt: CLY421

Ordercodes: 71142586; 71186335; CLY421*



SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION						
Product Description	Lithium-Ion Rechargeable	Lithium-Ion Rechargeable Cells and Batteries				
Product Identification	For Identification By Chem	For Identification By Chemistry see Section 3.				
	For NSN listing see section 16.					
Manufacturer	Ultralife Corporation	Ultralife Corporation 24 Hour ChemTrec				
Name/Address	2000 Technology Parkway	Emergency	800-424-9300 (US)			
	Newark, NY 14513 Contact 703-527-3887 (Internation					
Technical Contact	800-332-5000	Issue Date	23 MAY 02			
Prepared By	Rick Marino	Revision Date:	11 JUL 19			

Section 2 - HAZARDS IDENTIFICATION

NOTE: This Ultralife battery product meets the definition of an article. Under the Globally Harmonized System of Classification and Labeling of Chemicals (GHS), "Articles" as defined in the Hazard Communication Standard (29 CFR 1910.1200) of the Occupational Safety and Health Administration of the United States of America, or by similar definition, are outside the scope of the system. [Rev. 2 (2007) Part 1.3.2.1.1]

The materials contained in this product may only represent the hazards identified below if the integrity of the cell or battery is compromised; physically or electrically abused.

GHS Classification

Skin irritation (Category 2)

Skin sensation (Category 1)

Eye irritation (Category 2)

Single target organ toxicity, single exposure (Category 3)

Carcinogen (Category 1B)

GHS Label elements, including precautionary statements

Pictogram



Signal word - DANGER

Hazard statements

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H350 May cause cancer

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Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P350 IF ON SKIN: gently wash with plenty of soap and water.

P301 + P330 + P331 IF SWALLOWED: rinse mouth, DO NOT induce vomiting.

P304 + P340 IF INHALED: Move person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

P362 + P352 Take off contaminated clothing and wash before re-use.

P501 Dispose of contents/container in accordance with local/national regulations.

WHMIS Classification

D2A Very toxic material causing other toxic effects

Carcinogen

D2B Toxic material causing other toxic effects

Moderate skin irritant

Skin sensitizer

Moderate respiratory irritant

Moderate eye irritant

OSHA Classification

Hazardous

HMIS Classification

Health Hazard:

2

Chronic Hazards:

Flammability: 2

Physical Hazards: 0

Additional Notes:

- Do not open or disassemble.
- · Do not expose to fire or open flame.
- Do not mix with batteries of varying sizes, chemistries or types.
- Do not puncture, deform, incinerate or heat above 85°C (185°F).

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SECTION 3 - COMPOSITION - INGREDIENTS INFORMATION

Lithium Cobalt Oxide Type:

12041-2100-01, 12041-2100-02, 12041-2100-03, A3307643, S00072, S00112, S00145, S00225, S00245, S00273, S00301, S00304, S00314, S00335, UBBL02, UBBL03, UBBL06, UBBL08, UBBL09/B, UBBL10, UBBL10/B, UBBL18, UBBL19, UBBL20, UBBL21, UBBL22, UBBL23, UBBL24, UBBL25, UBBL26, UBBL27, UBBL29, UBBL29/B, UBBL31, UBBL35, UBBL64, UBBL65, UBBP01, UBP001, UBP002, UBP010.

Under normal use conditions, cells and batteries do not emit hazardous or regulated substances.

Component	CAS Number	EINECS Number	% by Wt.
Lithium Cobalt Oxide	12190-79-3	NA	10-45
Graphite	7440-44-0	NA	5-20
Ethylene Carbonate - Solvent	96-49-1	NA	3-6
Diethyl Carbonate - Solvent	105-58-8	203-311-1	3-6
Lithium Hexaflurophosphate - Salt	21324-40-3	NA	1-5

Depending on product configuration, components used to assemble battery packs (e.g. housings, electronic components and wiring) may contain additional hazardous materials, such as lead solder.

SECTION 3 (Continued) - COMPOSITION - INGREDIENTS INFORMATION

Lithium Nickel Cobalt Aluminum Type:

1009761, 12041-2200-01, 12041-2200-02, 12041-2200-03, 12041-2400-01, 12041-2400-02, 12041-2400-03, 12041-2420-02, 12500-2500, 299-0600, 817724-6, SCP0570008, SCP0570117, UBBL02-01, UBBL02-01-CB, UBBL06-01, UBBL06-02, UBBL08-01, UBBL10-01, UBBL10-01-CB UBBL13, UBBL13-01, UBBL13-01-CB, UBBL34, UBBL36, UBBL38, UBBL39, UBBL62, UBBP06, M975158Axxx, 14035-4010-01, 14035-4010-02, 14035-5050-01, 14035-5050-02.

Under normal use conditions, cells and batteries do not emit hazardous or regulated substances.

Component	CAS Number	EINECS Number	% by Wt.
Lithium Cobalt Nickel Aluminum Oxide	193214-24-3	NA	10-45
Graphite	7440-44-0	NA	5-20
Ethylene Carbonate - Solvent	96-49-1	NA	3-6
Diethyl Carbonate - Solvent	105-58-8	203-311-1	3-6
Lithium Hexaflurophosphate - Salt	21324-40-3	NA	1-5

Depending on product configuration, components used to assemble battery packs (e.g. housings, electronic components and wiring) may contain additional hazardous materials, such as lead solder.

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SECTION 3 (Continued) - COMPOSITION - INGREDIENTS INFORMATION

Lithium Nickel Manganese Cobalt Type:

S00216, S00319, S00209, UBBL05, UBBL07

Under normal use conditions, cells and batteries do not emit hazardous or regulated substances.

Component	CAS Number EINECS Numbe		er % by Wt.	
Lithium Nickel Manganese Cobalt Oxide	346417-97-8	NA	10-45	
Graphite	7440-44-0	NA	5-20	
Ethylene Carbonate – Solvent	96-49-1	NA	3-6	
Diethyl Carbonate – Solvent	105-58-8	203-311-1	3-6	
Lithium Hexaflurophosphate – Salt	21324-40-3	NA	1-5	

Depending on product configuration, components used to assemble battery packs (e.g. housings, electronic components and wiring) may contain additional hazardous materials, such as lead solder.

SECTION 4 -	FIRST AID MEASURES
Inhalation	Avoid inhaling any vented gases.
-	Remove to fresh air immediately.
	If breathing is difficult, seek emergency medical attention.
Ingestion	Consult a physician or local poison control center immediately
Skin Contact	 Exposure to materials from a ruptured or otherwise damaged cell or battery may cause skin irritation.
	Flush immediately with water and wash affected area with soap and water.
Eye Contact	 Exposure to materials from a ruptured or otherwise damaged cell or battery may cause eye irritation.
	 Flush immediately with copious amounts of water for at least 15 minutes; consult a physician immediately.

SECTION 5	- FIRE FIGHTING MEASURES				
Extinguishing	Copious amounts of cold water or water-based foam may be used to cool burning				
Media	cells or batteries. Do not use warm or hot water.				
1	 A carbon dioxide (CO₂) extinguisher is also effective. 				
	For fires involving exposed, raw lithium metal (characterized by deep red flames),				
	use only metal (Class D) fire extinguishers.				
	Do not use Halon type extinguishing material.				
Special Fire	Use a positive pressure self-contained breathing apparatus (SCBA) if cells or				
Fighting	batteries are involved in a fire.				
Procedures	Full fire fighting protective clothing is necessary.				

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	 During water application, caution is advised as burning pieces of flammable particles may be ejected from the fire.
Unusual Fire and Explosion Hazard	Cells or batteries that are damaged, opened or exposed to excessive heat/fire may flame or leak potentially hazardous organic vapors.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- In the event a cell or battery is crushed; releasing its contents, rubber gloves must be used to handle all battery components.
- Avoid inhalation of any vapors that may be emitted.
- Damaged batteries that are not hot or burning should be placed in a sealed plastic bag or container.

SECTION 7 - I	SECTION 7 - HANDLING AND STORAGE				
Precautions for	Batteries are designed to be recharged. However, improperly charging a cell or				
Safe Handling	battery may cause the product to flame or leak. Use only approved chargers				
	and procedures.				
	Never disassemble a battery or bypass any safety device.				
	More than a momentary short circuit will cause temporary battery voltage				
	loss until the battery is subjected to a charge. Batteries have re-settable				
	fuses that can be reactivated through applying a charge to the battery.				
	Extended short-circuiting creates high temperatures in the cell.				
	High temperatures can cause burns in skin or cause the cell to flame.				
	Avoid reversing battery polarity within the battery assembly. To do so may				
	cause cell to flame or to leak.				
Conditions for	Batteries should be separated from other materials and stored in a				
Safe Storage	non-combustible, well ventilated structure with sufficient clearance between				
and	walls and battery stacks. Do not place batteries near heating equipment,				
Incompatibility	nor expose to direct sunlight for long periods.				
	Do not store batteries above 60°C (140°F) or below -20°C (-4°F). Store				
	batteries in a cool (below 25°C (77°F)), dry area that is subject to little				
	temperature change. Elevated temperatures can result in reduced battery				
	service life. Battery exposure to temperatures in excess of 130°C (266°F)				
	will result in the battery venting flammable liquid and gases.				
	 Do not store batteries in a manner that allows terminals to short circuit. 				

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SECTION 8 - E	XPOSURE CONTROLS / PERSONAL PROTECTION
Engineering Controls and	Under conditions of normal use, batteries do not emit hazardous or regulated substances.
Work Practices	No engineering controls are required for handling batteries that have not been damaged.
Personal Protective Equipment	 Personal protective equipment for damaged batteries should include chemical resistant gloves and safety glasses. In the event of a fire, SCBA should be worn along with thermally protective outer garments.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES					
Appearance	Cylindrical cell or pack	UEL/LEL	Not Applicable		
Odor	None	Vapor Pressure	Not Applicable		
Odor Threshold	Not Applicable	Vapor Density	Not Applicable		
рH	Not Applicable	Relative Density	Not Available		
Melting Point	Not Available	Solubility	Not Applicable		
Boiling Point	Not Available	Partition Coefficient	Not Applicable		
Flash Point	Not Applicable	Auto-ignition Temperature	Not Available		
Evaporation Rate	Not Applicable	Decomposition Temperature	Not Available		
Flammability	Not Applicable	Viscosity	Not Applicable		

SECTION 10 - STABILITY AND REACTIVITY			
Stability:	Stable		
Hazardous Polymerization:	Will Not Occur		
Conditions to Avoid:	Prolonged overcharging and/or overheating.		
	It is not recommended that this product be stored above 60°C (140°F).		
Hazardous Decomposition:	Carbon Monoxide (CO), and Hydrogen Fluoride (HF)		
Reactivity:	Damaged non-discharged batteries contain elemental Lithium that is		
	water reactive. This reaction gives off heat and hydrogen gas		

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SECTION 11 – TOXICOLOGICAL INFORMATION

- No toxicological impacts are expected under normal use conditions.
- The electrolytes contained in this cell or battery can irritate eyes with any contact.
- Prolonged contact of electrolytes with lung tissue, skin or mucous membranes may cause irritation.
- Detailed information regarding sensitization, carcinogenicity, mutagenicity or reproductive toxicity related to internal cell or battery components has not been included in this document.

Carcinogen References

1. National Toxicology Program (NTP): No

2. IARC Monographs: No

3. OSHA: No

SECTION 12 - ECOLOGICAL INFORMATION

- · No ecological impacts expected under normal use conditions.
- Information on the ecological impact of internal cell or battery components has not been included in this document.

SECTION 13 - DISPOSAL CONSIDERATIONS

Do not dispose in fire. Battery disposal regulations vary on national, state/provincial and local bases. Disposal must be conducted in accordance with the applicable regulations.

These batteries contain recyclable materials and recycling is encouraged over disposal.

SECTION 14 - TRANSPORTATION INFORMATION

Ultralife's lithium metal primary cells and batteries and lithium-ion cells and batteries are classified and regulated as Class 9 dangerous goods (also known as "hazardous materials" in the United States) by the International Civil Aviation Organization (ICAO), International Air Transport Association (IATA), International Maritime Organization (IMO) and many government agencies such as the U.S. Department of Transportation (DOT). These organizations and agencies publish regulations that contain detailed packaging, marking, labeling, documentation, and training requirements that must be followed when offering (shipping) Ultralife's cells and batteries for transportation. However, small cells and batteries are not subject to certain provisions of the regulations (e.g. Class 9 labeling and UN specification packaging) if they meet specific requirements. The regulations are based on the UN Recommendations on the Transport of Dangerous Goods Model Regulations and the UN Manual of Tests and Criteria. These regulations also apply to shipments of cells and batteries that are packed with or contained in equipment. Failure to comply with these regulations can result in substantial civil or criminal penalties.

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The dangerous goods regulations require that each cell and battery design be subject to tests contained in Section 38.3 of the UN Manual of Tests and Criteria prior to being offered for transport.

Approved, production level cells and batteries manufactured and assembled by Ultralife have been tested to Section 38.3 of the UN Manual of Tests and Criteria and passed T1 through T8.

Batteries or battery packs constructed by other parties using Ultralife's cells must be subjected to the tests contained in Section 38.3 of the UN Manual of Tests and Criteria.

Important Note Regarding Prototype Cells and Batteries

Ultralife Corporation is permitted to ship prototype cells and batteries as Class 9 hazardous materials/dangerous goods in accordance with the requirements contained in a competent authority approval; provided by the US Department of Transportation. Recipients of these shipments are prohibited from reshipping unless they have received a similar approval from the governing Competent Authority.

SECTION 14 - TRANSPORTATION INFORMATION (continued)								
Air, Sea and Surface Classification		UN 3480, Lithium Ion batteries						
			UN 3481, Lithium Ion batteries, contained in equipment					
					UN 3481, Lithium I	on batte	ries, packed with equipment	
IATA Pack	caging C	Suidano	e					
UN3480	Lithium	Ion Bat	teries:					
	PI965	Section	n IA b	oatteries m	nore than 100Wh or	single c	ell more than 20Wh.	
		Section IB batteries less than 100Wh or single cell less than 20Wh						
		Section	n II b	atteries le	ess than 100Wh or si	ingle cel	less than 20Wh -max 2 batte	eries
UN3481	Lithium	Ion Bat	teries o	contained	in Equipment			
	P1967	Section	nl b	atteries m	ore than 100Wh or	single ce	ell more than 20Wh.	
		Section	n II 🛮 b	oatteries le	ess than 100Wh or s	single ce	Il less than 20Wh	
	Lithium	Ion Batt	eries pa	acked with	h equipment			
	P1966	Section	nl ba	atteries m	ore than 100Wh or s	single ce	Il more than 20Wh.	
	Section II batteries less than 100Wh or single cells less than 20Wh							
Hazard Class 9 Tunnel Code E								
Stowage L	ocation		Α	Marir	ne Pollutant	No		

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SECTION 15 - REGULATORY INFORMATION			
US	Hazard Communication Standard (29 CFR 1910.1200)	Article	
	CERCLA SECTION 304 Hazardous Substances	NA	
	EPCRA SECTION 302 Extremely Hazardous Substance	NA	
	EPCRA SECTION 313 Toxic Release Inventory	NA	
	EPCRA SECTION 312	NA	
	Components Listed on US Toxic Substances Control Act (TSCA) Inventory	Yes	
	California Prop 65 Classification	None	
EU	Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) 1907/2006	Article	
	European RoHS2 Directive 2011/65/EU	Not	
	European Ronsz Directive 2011/65/E0	Applicable	
	European WEEE Directive 2012/19/EU		
	Note: Applies to cells and batteries incorporated into electrical and electronic	See Note	
	equipment, when that equipment becomes waste.		

SECTION 16 - OTHER INFORMATION

If returning product to any division of Ultralife, consult the relevant regulations regarding handling, packaging, labeling and transportation.

For UBBL29 and UBBL29/B Products

External Battery Finish – Reference MSDS for Sherwin Williams MIL-DTL-64159 (approx. 8 grams) PCB Coating – Reference MSDS for Humiseal 1B73 Aerosol (approx. 0.6 grams) Li-lon Cells – Reference MSDS for Molicel Cobalt-based Lithium-Ion Cells (approx. 768 grams)

For UBBL31 Products

Battery Case Material – Reference MSDS for Sabic Noryl® N190X-701 (approx. 132 grams)

PCB Coating – Reference MSDS for Humiseal 1B73 Aerosol (approx. 0.6 grams)

Li-lon Cells – Reference MSDS for Molicel Cobalt-based Lithium-Ion Cells (approx. 1152 grams)

NSN # List

6140-01-553-3527 (for UBBL02, UBBL02-01)

6140-01-620-0555 (for UBBL03)

6140-01-542-4380 (for UBBL06)

6140-01-590-4132 (for UBBL07)

6140-01-580-6190 (for UBBL08)

6140-01-620-8528 (for UBBL09/B)

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6140-01-554-2347 (for UBBL10, UBBL10-01)
6140-01-611-0192 (for UBBL13, UBBL13-01)
6140-01-625-9659 (for UBBL29)
6140-01-573-4968 (for UBBL29)
6140-01-583-0570 (for UBBL29/B)
6140-01-573-6374 (for UBBL31)
6140-01-625-7254 (for UBBL35)
6140-01-592-5521 (for A3307643-1)
6140-01-592-5521 (for 1009761)
6140-01-551-8898 (for 12041-2100-01)
6140-01-548-7566 (for 12041-2100-03)
6140-01-628-0941 (for 12041-2100-03)
6140-01-548-7566 (for 12041-2200-01)
6140-01-548-7566 (for 12041-2200-02)
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Disclaimer

The information contained herein is furnished without warranty of any kind. Users should consider this data only as a supplement to other information gathered by them and must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

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UBBL22

Technical Datasheet



Features

- · Off-the-shelf convenience
- · Wire or connector terminals
- · Full circuit protection
- · Meets all UN transportation testing
- · Long cycle life
- · High energy density
- · Wide operating temperature range
- Lightweight

Applications

- Portable electronics
- · Hand-held devices
- Medical equipment
- · Back-up power

Accessories Optional

- UCH0039-S: Wall Wart charger (U.S.)
- UCH0039-I: Wall Wart charger (International)
- UCA0102-01: Interface cable for UBBL22-FL
- · UCA0102-02: Interface cable for UBBL22-C1

Technical Specifications		
Part No.	UBBL22-FL or UBBL22-C1 or UBBL22-C2-TH	
Voltage Range	12.0 to 16.8V	
Average Voltage	14.4V	
Capacity	2.8Ah @ C/5 Rate @ 23°C±2°C	
Max. Discharge	2.5A continuous	
PTC	Rated for 2.6A Hold Current @ 20°C	
Energy	41.8Wh	
Energy Density	180Wh/kg, 432Wh/l	
Weight	~200g	
Cycle Life	> 300 cycles @ C/5 to 80% of inital capacity	
Memory	No Memory Effect	
Operating Temperature	-20°C to 60°C	
Storage Temperature	-20°C to 50°C	
Self-Discharge	< 10% per month	
Exterior/Housing	PVC Shrink Wrap	
Terminals/Connector	FL: 22 AWG wire leads Red (+), Black (-) C1: JST Connector VHR-2N C2-TH: Molex Microfit 3 pn w/Thermistor 10K	
Certifications	IEC 62133-2:2017 Pending	
Safety	Material Safety Datasheet - MSDS041 Saftety Guide UBM-5112	
Transportation	Excepted from regulations for packages with gross mass of 10kg or less (see note)	
Protection Circuit Module and Fuses	Over Voltage Limit: 4.35±0.025V (per cell) Under Voltage Limit: 2.30±0.1V (per cell) Over Discharge Current Limit: 3.6 - 6.0A	
Charging	Recommended charge rate is 466mA to 16.8V in a temperature range of 0°C to 45°C. Hold a 16.8V until current declines to 50mA. Maximus charge rate is 1.63A @ 23°C±2°C.	
Note	A complete description of transportation regulations, lithium weights and transportation classifications is available on the Ultralife webs	



Lithium Battery Test Summary

Lithium Cells or Batteries Test Summary in Accordance with Sub-Section 38.3 of UN Manual of Tests & Criteria a) Name of Battery Manufacturer b) Battery Manufacturers Contact Information Ultralife Corporation Ultralife Corporation 2000 Technology Parkway Newark, NY 14513 Web: www.ultralifecorporation.com Telephone: +1 (800) 332-5000 Email: Orders@ulbi.com c) Name & Contact Details of Test Laboratory d) Test Report Identification Number Ultralife Corporation 2000 Technology Parkway UNTR-0217 Rev. A Newark, NY 14513 USA e) Date of Test Report Web: www.ultralifecorporation.com Telephone: +1 (800) 332-5000 12 May 2020 Email: orders@ulbi.com f) Description of Battery g) List of Tests Conducted Type: Secondary, Li-Ion Altitude Simulation PASS Model: UBBL22 T2 Thermal Test PASS UBBL22-FL, UBBL22-C1, Part Number: **T3** Vibration **PASS** UBBL22-C2-TH Brand: **Ultralife Corporation T4** Shock PASS Voltage (V) / Capacity (Ah): 14.4V 2.8Ah **T5 External Short Circuit PASS** Watt-Hour (Wh) or 41.8Wh T6 Impact / Crush NA Lithium Weight (g) Complete Battery Mass (g) 200g **T7** Overcharge **PASS** Nominal Dimensions (mm) 22 x 67 x 75 Forced Discharge h) Reference to Assembled Battery Testing Requirements i) Reference to Manual of Tests & Criteria (inc. Amend.) UN Manual of Tests & Criteria Part III, Subsection 38.3, 38.3.3 (f) Not applicable Lithium Metal & Lithium Ion Batteries, 38.3.3 (g) Not applicable UN ST/SG/AC.10/11/ Rev.6 Amendment 1 j) Signature Image of Battery Pack Date: 12 May 2020 John Nielsen (Ultralife Quality Manager) Important! This document remains valid if no changes, modifications, or additions are made to the model(s) described in this document. The model(s) have been classified according to the applicable transport regulations & the UN Manual of Tests & Criteria as of the date of the certification. The model(s) must be packaged, labelled & documented according to country & other international regulations for transportation.

Important! The above signatory / signatories affirm that this document is a true and correct summary of the original individual tests and test data. The original test data is confidential information available to competent State Authorities with valid identification and only upon their formal request. Disclosure of the original test data to any other entity upon its request will be considered by Ultralife and, should Ultralife consider this request is with merit, may be subject to the prior execution of a nondisclosure agreement.

Unique Document Reference: UNTS-0217 REV: A