Entre BATTERY SAFETY DATA SHEET Rev. 1.0

SECTION 1 - CHEMICAL AND COMPANY IDENTIFICATION

Product Name:	Lithium-ion Rechargeable Battery Pack Date Prepare			Prepared:	February 2024	
	Type/Model	Nominal voltage		Rated ca	Rated capacity	
T	CNB550E V2	7.4V		1800mAh	1800mAh	
Type/Model:	CNB950E V2	7.4V		1800mAh	١	
	The above model battery is composed of the same cell.					
Parameter	7.4V, 1800mAh, 13.32Wh					
lleene	Used in Portable Equipn	nent	🗆 Used in	Electric Vel	nicle	
Usage	Used in Energy Storage System					
Manufacturer's Name:	Entel UK Limited					
Address:	320 Centennial Avenue, Centennial Park, Elstree, Borehamwood, Herts, WD6 3TJ					
Telephone Number:	+44 (0)20 8236 0032					
E-Mail:	technical@entel.co.uk					
Website:	www.entel.co.uk					
Emergency Contact Number:	+44 (0)20 8236 0032					
Document Number:	QAS-SDS-018					

SECTION 2 – HAZARD IDENTIFICATION

Classification:

This chemical is not considered hazardous by the Regulation (EC) No 1272/2008 (CLP). This product is an article that is a sealed battery and as such does not require an SDS per regulation (EC) No 1272/2008 (CLP) unless ruptured. The hazards indicated are for ruptured batteries.

Acute toxicity – Oral	Category 4
Acute toxicity – Dermal	Category 4
Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

Label elements:

Signal Word: Danger

Hazard Statements

Harmful if swallowed.
Harmful in contact with skin.
Harmful if inhaled.
Causes serious eye damage.
May cause allergic skin reaction.
May cause cancer.
May cause damage to organs.
May cause respiratory irritation.

Symbol







This product is an article that contains a chemical substance. Safety information is given for exposure to the article as solid. The intended use of the product should not in result exposure to the chemical substance, this is a battery. In case of rupture: the above hazards exist.

۰.	riecautionary Statement – Frevention		
	P201	Obtain special instructions before use.	
	P202	Do not handle until all safety precautions have been read and understood.	
	P281	Use personal protective equipment as required.	
	P264	Wash face, hands and any exposed skin thoroughly after handling.	
	P272	Contamination work clothing should not allowed out of the workplace.	
	P210	Keep away from heat/sparks/open flames/hot surfaces-no smoking.	
	P270	Do not eat, drink or smoke when using this product.	

Precautionary Statement – Prevention

Precaution Statements – Response

P301 + P330 + P308

If exposed or connected: Get medical advice/attention. Specific treatment (see supplemental first aid/instruction on this label)

Skin: If on the skin: wash with plenty of soap and water. Take off contaminated clothing and water before reuse, if skin irritation or rash occurs: get medical advice/attention if feel unwell.

Eye: If in eyes: Rinse cautiously with water for several minutes, and remove contact lenses, if present and easy to do, continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation: If inhalation: if breathing is difficult, remove the victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician if you feel unwell. Ingestion: If swallowed: rinse mouth, do not induce vomiting, and call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements – Storage

P405	Store locked up
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Precautionary Statements – Disposal

P501 Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable.

Other information

Harmful to aquatic organisms, and may cause long-term adverse effects in the aquatic environment.

Interactions with other chemicals

The use of alcoholic beverages may enhance the toxic effect.

SECTION 3 – COMPOSITION /INFORMATION ON INGREDIENT

Ingredient	Molecular Formula	CAS No.	Weigh
Lithium Cobalt Dioxide	LiC ₀ O ₂	12190-79-3	33-45%
Graphite	C24X12	7782-42-5	13-21%
Electrolyte			13-20%
Aluminium	AI	7429-90-5	13-20%
Copper foil	Cu	7440-50-8	6-12%
Polyvinylidene fluoride	$(C_2H_2F_2)_n$	24937-79-9	0.4-0.9%
Graphite /Acetylene Black	С	1333-86-4	0.3-0.7%

SECTION 4 – FIRST AID MEASURES

Eye Exposure:

In case of contact with eyes, flush with copious water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Skin Exposure:

If the internal battery materials of an opened battery cell come into contact with skin, immediately flush with plenty of water or soap.

Inhalation Exposure:

If inhaled the internal battery vomiting. Seeking immediate medical attention.

Ingestion Exposure:

If swallowed, seek medical attention. Do not include vomiting unless directed to do so by medical personnel.

SECTION 5 – FIRE FIGHTING MEASURES

Danger characteristic:

Exposure to excessive heat can cause venting of the liquid electrolyte. Battery may burst and release hazardous decomposition products when exposed to a fire situation.

Hazardous combustion products:

Corrosive and toxic gas may be emitted during a fire.

Fire-Fighting method:

The staff must equip with filter mask (full mask) or isolated breathing apparatus. The staff must wear clothes which can defend the fire in the upwind direction. Remove the container to the open space as soon as possible. Spray water on the containers in the fireplace to keep them cool until finished extinguishment.

Fire-fighting media:

Plenty of water, dry chemical powder or carbon dioxide.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency treatment:

If the battery material is released, remove personnel from the area until the batteries cool down and the fumes dissipate. Provide maximum ventilation to clear out hazardous gases and avoid skin and eye contact or inhalation of vapours. Remove spilled liquid with absorbent and incinerate waste.

SECTION 7 - HANDLING AND STORAGE

Handling:

- 1. Do not allow battery terminates to contact each other, or contact with other metals.
- 2. Do not put the cell or battery into fire or heat it. Do not solder the cell directly. Do not use or leave the cell or battery in a place near the fire or heaters.
- 3. Do not expose the battery to excessive physical shock or vibration.
- 4. Do not immerse, throw, and wet a battery in water.
- 5. Short-circuiting should be avoided. A short circuit will reduce the life of the battery and can lead to the ignition of surrounding materials. Physical contact with short-circuited battery can cause skin burns.
- 6. The batteries 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 containers.
- 7. Place the cell beyond the child packing and container.
- 8. Do not connect the battery directly to an electric outlet or cigarette socket in a car.
- 9. Be sure to use the specified charger for battery, and follow the charging instructions correctly.
- 10. Do not mix old and new batteries together, neither with Ni-Cd, dry batteries or another manufacturer's batteries or product.

Storage:

- 1. Batteries should be separated from other materials and stored in a non-combustible, well ventilated, sprinklerprotected structure with sufficient clearance between walls and battery stacks.
- Keep the sample in a cool, dry and well-ventilated place (temperature: -20~30°C, humidity: 45~85%). Do not
 exposure to direct sunlight for long periods. Keep away from fire and heating sources. Don't keep the samples
 with oxidizer and acid.
- 3. Equip with relevant types and quantities of the extinguishment instruments. The storage place should be equipped with suitable shelter materials for divulgence handling.
- 4. For rechargeable battery, charge the battery every 6 months to the amount specified by the manufacture, even if the battery is not used.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Control:

Keep away from heat and open flame. Supply with sufficient partial air exhaust. Store in a cool, dry place.

Respiratory Protection:

Not necessary under conditions of normal use. Wear a self-contained breathing filter mask if the density exceeds in the air. Wear a breathing apparatus under the condition of emergency rescue or evacuation.

Eyes Protection:

Not necessary under control conditions of normal use. Wear protective glasses if handling a leaking or ruptured battery.

Skin and Body Protection:

Not necessary under conditions of normal use. Wear fireproofing, gas defence clothes in case of handling a leaking or ruptured battery.

Hands Protection:

Not necessary under conditions of normal use. Wear chemical-resistance rubber gloves.

Other Protections:

No smoking, dining and drinking water in the workplace. Keep good habits of hygiene.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black
Physical state:	Solid
Form:	Irregular shape
Odor:	Odorless
Solubility:	Insoluble in water

SECTION 10 - STABILITY AND REACTIVITY

Stability:

Stable under normal temperature and pressure.

Distribution of Ban:

Explosives, inflammables, strong oxidations and corrosives.

Conditions to Avoid:

Fire source, heating source, disassembly, external short circuit, crushes, deformation, high temperature above 100°C, direct sunlight and high humidity, immerse in water or overcharge.

Hazardous Polymerization:

This will not occur.

Hazardous Decomposition Products:

Metal oxides, carboxyl compounds such as CO, CO₂, etc.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity:

No information is available.

Sub-acute and Chronic Toxicity:

No information is available.

Irritation Data:

The internal battery materials may cause irritation to the eyes and skin.

Sensitization:

The liquid in the battery may cause sensitization in some people.

Mutagenicity:

No information is available.

Carcinogenicity:

Cobalt and Cobalt compounds are considered to be possible human carcinogen(s).

Others:

Since the materials in this battery are sealed in the can, the potential for exposure to the components of the battery is negligible, when the battery is used as directed. However technical or electrical abuse of the battery may result in the release of battery contents.

SECTION 12 - ECOLOGICAL INFORMATION

Eco-toxicity:

No information is available.

Biodegradable: No information is available.

Mobility in soil: No information is available.

Bio concentration or biological accumulation: No information is available.

Other harmful effects:

Don't abandon the battery in environment, may cause water or soil pollution.

SECTION 13 – DISPOSAL CONSIDERATIONS

Appropriate Method of Substance:

The battery should be completely discharged before disposal in order to prevent short circuit.

The battery contains recyclable materials, and it is suggested to recycle.

Refer to National or Local regulations before handling.

Disposal of the battery should be performed by permitted, professional disposal firms knowledgeable in National or Local regulations of hazardous waste treatment and hazardous waste transportation.

SECTION 14 – TRANSPORT INFORMATION

The battery has passed the test items of UN Manual of Test and Criteria Section 38.3.

Type/Model	Report No.
CNB550E V2	SET2018-05534
CNB950E V2	SET2018-01965

General packaging requirement:

1. The cells or batteries must be protected so as to prevent short circuits.

2. The cells or batteries or equipment must be packed in suitable strong outer packaging.

3. If batteries are contained in equipment, equipment must be secured against movement within the outer packaging and be packed so as to prevent accidental activation.

Air transportation, according to IATA-DGR 65th Edition

UN Number + PSN	UN 3480, Lithium-ion Batteries	
Hazard Class	Class 9	
Packaging instruction	Strong package, packaging according to packing instruction 965, section IB	
UN Number + PSN	UN 3481, Lithium-ion Batteries Packed with Equipment, or UN 3481, Lithium-ion Batteries Contained in Equipment	
Hazard Class	Not restricted	
Packaging instruction	Strong package, packaging according to packing instruction 966-967, section II	

Sea transportation, according to IMO IMDG Code (Amend 40-2020)

UN Number + PSN	UN 3480, Lithium-ion Batteries UN 3481, Lithium-ion Batteries Packed with Equipment, or UN 3481, Lithium-ion Batteries Contained in Equipment
Hazard Class	Not restricted, according to sp188
Packaging instruction	Strong package, Packaging in accordance to corresponding requirements of sp188
EmS No	F-A, S-I

Road transportation, according to ADR-2021

UN Number + PSN	UN 3480, Lithium-ion Batteries UN 3481, Lithium-ion Batteries Packed with Equipment, or UN 3481, Lithium-ion Batteries Contained in Equipment
Hazard Class	Not restricted, according to sp188
Packaging instruction	Strong package, Packaging in accordance to corresponding requirements of sp188

SECTION 15 – REGULATORY INFORMATION

Dangerous Goods Regulation (DGR) Recommendations on the Transport of Dangerous Goods Model Regulations International Maritime Dangerous Goods (IMDG) QAS-SDS-017 Page: 5 / 6 Occupational Safety and Health Act (OSHA) Toxic Substances Control Act (TSCA) Code of Federal Regulations (CFR) Technical Instructions for the Safe Transport of Dangerous Goods California Proposition 65 Superfund Amendments and Reauthorization Act Title III (302/311/312/313) (SARA) Globally Harmonized System of Classification and Labelling of Chemicals (GHS) In accordance with all Federal, State and local laws.

SECTION 16 – OTHER INFORMATION

Preparation Date:	February 27, 2024	
Prepared by:	Entel Quality Assurance Department	
According standard:	GB/T 16483-2008 SDS for chemical products Content and order of sections ISO 11014:2009(E) SDS for chemical products Content and order of sections	
Report No. Entel20230119MSDS01 Guangzhou MCM Certification & Testing Co., Ltd. Reference: Report No. SET2018-05534 Report No. SET2018-01965 CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.		
Revision:		
Rev. 1.0 (Ver. 02/24)	Initial Release	

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