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INSPECTION
CNAS IB0551

Report No.: Entel20230119MSDS02

MATERIAL SAFETY DATA SHEET

Product	LITHIUM-ION RECHARGEABLE BATTERY PACK
Type/Model	See Section 1
Issue Date	2023-02-14
Validity	2023-02-14 ～ 2023-12-31
Compiler	Jangxing Xiao
Reviewer	Chen Huang
Approver	Hongbin Fu

广州邦禾检测技术有限公司

Guangzhou MCM Certification & Testing Co., Ltd.

Material Safety Data Sheet

SECTION 1 - CHEMICAL AND COMPANY IDENTIFICATION

Product	LITHIUM-ION RECHARGEABLE BATTERY PACK
Type/Model:	Type/Model: CNB750E; Nominal voltage: 7.6V; Rated capacity: 2200mAh Type/Model: CNB450E; Nominal voltage: 7.6V; Rated capacity: 2200mAh Type/Model: ASN 415 BB; Nominal voltage: 7.6V; Rated capacity: 2200mAh Type/Model: CNB450E-IS; Nominal voltage: 7.6V; Rated capacity: 2200mAh The above model battery is composed of the same cell. The Type CNB450E and ASN 415 BB are the same design, except for label
Parameter	7.6V, 2200mAh, 16.72Wh
Usage	☐ Used in Portable Equipment ☐ Used in Electric Vehicle ☐ Used in Energy Storage System ☒ Others
Company	Entel UK Ltd
Address	320 Centennial Avenue Centennial Park Elstree Hertfordshire WD6 3TJ United Kingdom
Fax	--
Zip code	--
E-mail	technical@entel.co.uk
Emergency Telephone +44 (0)208236 0032	

SECTION 2 - HAZARDS IDENTIFICATION

Classification:

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

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

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H371	May cause damage to organs.
H355	May cause respiratory irritation.

Symbol

GHS08 GHS05 GHS07

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

Precautionary Statements – Prevention

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	Contaminated work clothing should not be 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 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 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, 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 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, Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements – Storage

P405	Store locked up

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, may cause long-term adverse effects in the aquatic environment.

Interactions with other chemicals
Use of alcoholic beverages may enhance toxic effect.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENT

Ingredient	Molecular formula	CAS No.	EC No.	Weigh
Lithium Cobalt Dioxide	$LiCoO_2$	12190-79-3	235-362-0	36.85%
Graphite	C	7782-42-5	231-955-3	19%
Lithium hexafluorophosphate	F_6LiP	21324-40-3	244-334-7	16%
Ethylene carbonate	$C_3H_4O_3$	96-49-1	202-510-0	
Propylene carbonate	$C_4H_6O_3$	108-32-7	203-572-1	
Diethyl carbonate	$C_5H_{10}O_3$	105-58-8	203-311-1	
Fluoroethylene carbonate	$C_3H_3FO_3$	114435-02-8	483-360-5	
1,3-Dioxolan-2-one,4-ethenyl-	$C_5H_6O_3$	4427-96-7	--	
Aluminium	Al	7429-90-5	231-072-3	11%
Copper	Cu	7440-50-8	231-159-6	7%
Graphite /Acetylene Black	Al_2O_3	1344-28-1	215-691-6	10.15%

SECTION 4 - FIRST AID MEASURES

Eye Exposure:
In case of contact with eyes, flush with copious of 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 internals of battery vomiting. Seeking Immediate medical attention.

Ingestion Exposure:
If swallowed, seek medical attention. Do not induce 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 fire.

Fire-Fighting method:

The staff must equip with filtermask (full mask) or isolated breathing apparatus.

The staff must wear the clothes which can defense 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 finish 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 area until the batteries cool down and fumes dissipate.

Provide maximum ventilation to clear out hazardous gases and avoid skin and eye contact or inhalation of vapors.

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 a fire or heat it. Do not solder the cell directly. Do not use or leave the cell or battery in a place near 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. Short circuit will reduce the life of the battery and can lead to ignition of surrounding materials. Physical contact with to short- circuited battery can cause skin burn.
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 container.
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 batteries or product.

Storage:

1. Batteries should be separated from other materials and stored in a noncombustible, well ventilated, sprinkler-protected structure with sufficient clearance between walls and battery stacks.
2. Keep the sample in the cool, dry and well-ventilated place (temperature: -20~30 ºC, 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 self-contained breathing filtermask if the density exceed in the air. Wear breathing apparatus under the condition of emergency rescue or evacuation.
Eyes Protection: Not necessary under 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 defense clothes in case of handling a leaking or ruptured battery.
Hands Protection: Not necessary under conditions of normal use. Wear chemical resistant rubber glove.
Other Protections: No smoking, dining and drinking water in the workplace. Keep good habit 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 oxidants and corrosives.
Conditions to Avoid: Fire source, heating source, disassemble, external short circuit, crushes, deformation, high temperature above 100°C, direct sunlight and high humidity, immerse in water or overcharge.
Hazardous Polymerization: Will not occur.
Hazardous Decomposition Products: Metal oxides, carboxyl compound such as CO, CO_2, 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 eyes and skin.
Sensitization: The liquid in the battery may cause sensitization to some person.
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.

Bioconcentration or biological accumulation:
No information is available.

Other harmful effects:
Don't abandon the battery into environment, may cause water or soil pollution.

SECTION 13 - DISPOSAL CONSIDERATIONS

Appropriate Method of Substance:
The battery should be completely discharged prior to disposal in order to prevent short circuit.
The battery contains recyclable materials, and it is suggested 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

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 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 64th Edition (Effective 1 January-31 December 2023)	
UN Number + PSN	**UN 3480, LITHIUM ION BATTERIES**
Hazard Class	Class 9
Packaging requirement	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 requirement	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, or** **UN 3481, LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, or** **UN 3481, LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT**
Hazard Class	Not restricted, according to sp188
Package 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, or** **UN 3481, LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, or** **UN 3481, LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT**
Hazard Class	Not restricted, according to sp188
Package 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)
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 Labeling of Chemicals(GHS)
In accordance with all Federal, State and local laws.

SECTION 16 - ADDITIONAL INFORMATION

According standard:

GB/T 16483-2008 Safety data sheet for chemical products Content and order of sections
ISO 11014:2009(E) Safety data sheet for chemical products – Content and order of sections

Editing date:
2023-01-20

Department:
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Other Information:
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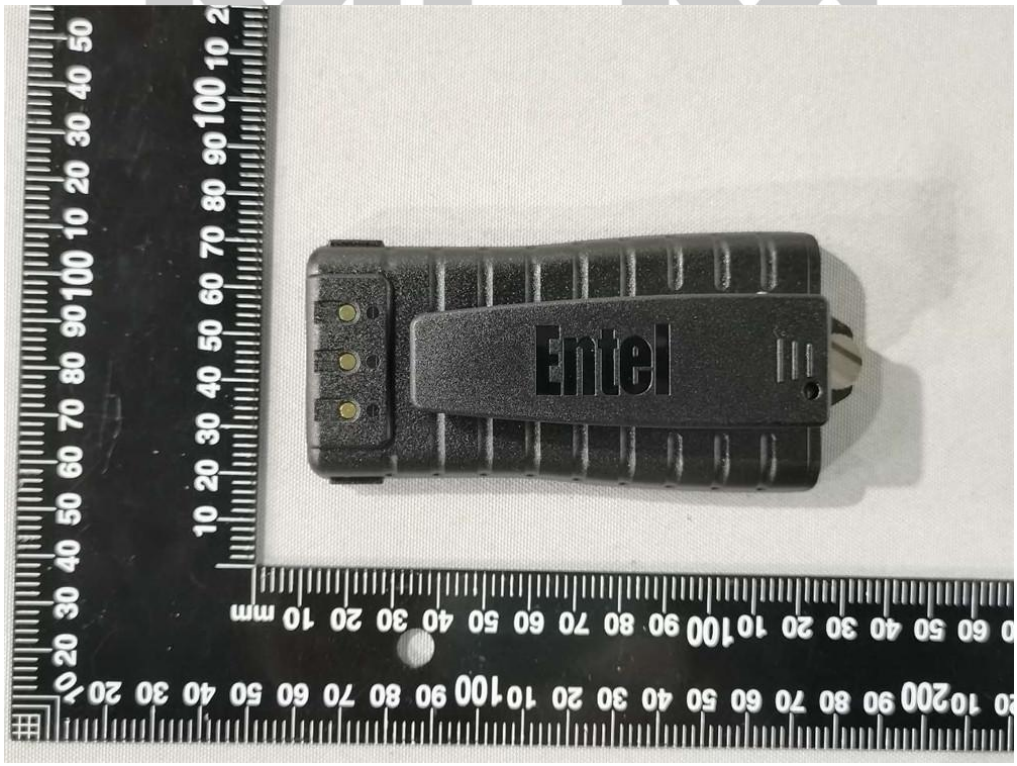
Sample Reference Photo

Model: CNB750E 7.6V 2200mAh 16.72Wh



Sample Reference Photo

Model: CNB450E 7.6V 2200mAh 16.72Wh

Sample Reference Photo

Model: CNB450E-IS, 7.6V, 2200mAh, 16.72Wh

--End of the report--

Material Declaration

<Date of declaration>

Date:	11-Jul-22

<MD ID Number>

MD-ID-No.	MD_ENT_UK_20220711

<Other information>

Remark 1	N/A
Remark 2	N/A
Remark 3	N/A

<Supplier (Respondent) Information>

Company name	Entel UK Limited
Division name	Quality Assurance
Address	320 Centennial Ave, Centennial Park, Elstree Herts WD63TJ
Contact person	Mike Jamieson
Telephone no	+44 (0)20 8236 0032, Ext 239 or 219
Fax number	None
E-mail address	mike.jamieson@entel.co.uk
SDoC ID no	SD_ENT_UK_20220711

<Product Information>

Product Category	Product Number	Delivered Unit		Product Information
		Amount	Unit	
Fire Fighter Transceivers VHF	DT844FF DT944FF	0.435	kg	MED Wheel mark approved Fire Fighter radio. ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C MED Wheel mark approved Fire Fighter radio. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C
Fire Fighter Transceivers UHF	DT885FF DT985FF	0.435	kg	MED Wheel mark approved Fire Fighter radio. ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C MED Wheel mark approved Fire Fighter radio. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C
DT Marine VHF	DT542 DT544 DT842 DT844 DT942 DT944	0.435	kg	Marine Transceiver Displayless. IECEx Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver Display. IECEx Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver Displayless. ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver Display. ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver Displayless. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C Marine Transceiver Display. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C
DT Marine UHF	DT582M DT585M DT882M DT885M DT982M DT985M	0.435	kg	Marine Transceiver Displayless. IECEx Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver Display. IECEx Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver Displayless. ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver Display. ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver Displayless. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C Marine Transceiver Display. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C
DT Land VHF	DT522 DT525 DT822 DT825 DT922 DT925	0.435	kg	DMR/Analogue Land Transceiver Displayless. IECEx Ex ib IIA T4 Gb Ta= -20C to +40C DMR/Analogue Land Transceiver Display. IECEx Ex ib IIA T4 Gb Ta= -20C to +40C DMR/Analogue Land Transceiver Displayless. ATEX II 2G Ex ib IIA T4 Gb Ta= -20C to +40C DMR/Analogue Land Transceiver Display. ATEX II 2G Ex ib IIA T4 Gb Ta= -20C to +40C DMR/Analogue Land Transceiver Displayless. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C DMR/Analogue Land Transceiver Display. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C
DT Land UHF	DT582 DT585 DT882 DT885 DT982 DT985	0.435	kg	DMR/Analogue Land Transceiver Displayless. IECEx Ex ib IIA T4 Gb Ta= -20C to +40C DMR/Analogue Land Transceiver Display. IECEx Ex ib IIA T4 Gb Ta= -20C to +40C DMR/Analogue Land Transceiver Displayless. ATEX II 2G Ex ib IIA T4 Gb Ta= -20C to +40C DMR/Analogue Land Transceiver Display. ATEX II 2G Ex ib IIA T4 Gb Ta= -20C to +40C DMR/Analogue Land Transceiver Displayless. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C DMR/Analogue Land Transceiver Display. ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C
DX Marine UHF	DX482M DX485M	0.267	kg	DMR/Analogue Marine Transceiver, Displayless DMR/Analogue Marine Transceiver, Display
DX Land VHF	DX422 DX425	0.267	kg	DMR/Analogue Land Transceiver, Displayless DMR/Analogue Land Transceiver, Display
DX Land UHF	DX482 DX485	0.267	kg	DMR/Analogue Land Transceiver, Displayless DMR/Analogue Land Transceiver, Display
DX-IS Marine VHF	DX542-IS DX544-IS	0.289	kg	Marine Transceiver Displayless. UL913 intrinsically safe approved Marine Transceiver Display. UL913 intrinsically safe approved
DX-IS Marine UHF	DX582M-IS DX585M-IS	0.289	kg	Marine Transceiver Displayless. UL913 intrinsically safe approved Marine Transceiver Display. UL913 intrinsically safe approved
DX-IS Land VHF	DX522-IS DX525-IS	0.289	kg	DMR/Analogue Land Transceiver, Displayless, UL913 intrinsically safe approved DMR/Analogue Land Transceiver, Display, UL913 intrinsically safe approved
DX-IS Land UHF	DX582-IS DX585-IS	0.289	kg	DMR/Analogue Land Transceiver, Displayless, UL913 intrinsically safe approved DMR/Analogue Land Transceiver, Display, UL913 intrinsically safe approved
HT700 Land VHF	HT722 HT723 HT725 HT726	0.277	kg	Analogue Land Transceiver, Displayless, 3keys Analogue Land Transceiver, Display, 3keys Analogue Land Transceiver, Display, 8 keys Analogue Land Transceiver, Display, 20 keys
HT700 Land UHF	HT782 HT783 HT785 HT786	0.277	kg	Analogue Land Transceiver, Displayless, 3keys Analogue Land Transceiver, Display, 3keys Analogue Land Transceiver, Display, 8 keys Analogue Land Transceiver, Display, 20 keys
HT644 Marine VHF	HT644	0.277	kg	Marine Transceiver, Display, 7keys
HT649 Marine VHF	HT649	0.277	kg	GMDSS MED approved, Display, 7keys
HT500 Marine VHF	HT542 HT544	0.277	kg	Marine Transceiver Displayless, 3keys IECEx Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver Display, 7keys. IECEx Ex ib IIB T4 Gb Ta= -20C to +40C

	HT522M HT523M HT525M HT526M			Marine Transceiver, Displayless, 3keys, IECEx Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver, Display, 3keys, IECEx Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver, Display, 8 keys, IECEx Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver, Display, 20 keys, IECEx Ex ib IIB T4 Gb Ta= -20C to +40C
HT500 Marine UHF	HT582M HT583M HT585M HT586M	0.277	kg	Marine Transceiver, Displayless, 3keys, IECEx Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver, Display, 3keys, IECEx Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver, Display, 8 keys, IECEx Ex ib IIB T4 Gb Ta= -20C to +40C Marine Transceiver, Display, 20 keys, IECEx Ex ib IIB T4 Gb Ta= -20C to +40C
HT500 Land VHF	HT522 HT523 HT525 HT526	0.277	kg	Land Transceiver, Displayless, 3keys, IECEx Ex ib IIA T4 Gb Ta= -20C to +40C Land Transceiver, Display, 3keys, IECEx Ex ib IIA T4 Gb Ta= -20C to +40C Land Transceiver, Display, 8 keys, IECEx Ex ib IIA T4 Gb Ta= -20C to +40C Land Transceiver, Display, 20 keys, IECEx Ex ib IIA T4 Gb Ta= -20C to +40C
HT500 Land UHF	HT582 HT583 HT585 HT586	0.277	kg	Land Transceiver, Displayless, 3keys, IECEx Ex ib IIA T4 Gb Ta= -20C to +40C Land Transceiver, Display, 3keys, IECEx Ex ib IIA T4 Gb Ta= -20C to +40C Land Transceiver, Display, 8 keys, IECEx Ex ib IIA T4 Gb Ta= -20C to +40C Land Transceiver, Display, 20 keys, IECEx Ex ib IIA T4 Gb Ta= -20C to +40C
HT800 Marine VHF	HT822M HT823M HT825M HT826M	0.277	kg	Land Transceiver, Displayless, 3keys, ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C Land Transceiver, Display, 3keys, ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C Land Transceiver, Display, 8 keys, ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C Land Transceiver, Display, 20 keys, ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C
HT800 Marine UHF	HT882M HT883M HT885M HT886M	0.277	kg	Land Transceiver, Displayless, 3keys, ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C Land Transceiver, Display, 3keys, ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C Land Transceiver, Display, 8 keys, ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C Land Transceiver, Display, 20 keys, ATEX II 2G Ex ib IIB T4 Gb Ta= -20C to +40C
HT800 Land UHF	HT882 HT883 HT885 HT886	0.277	kg	Land Transceiver, Displayless, 3keys, ATEX II 2G Ex ib IIA T4 Gb Ta= -20C to +40C Land Transceiver, Display, 3keys, ATEX II 2G Ex ib IIA T4 Gb Ta= -20C to +40C Land Transceiver, Display, 8 keys, ATEX II 2G Ex ib IIA T4 Gb Ta= -20C to +40C Land Transceiver, Display, 20 keys, ATEX II 2G Ex ib IIA T4 Gb Ta= -20C to +40C
HT900 Marine VHF	HT922M HT923M HT925M HT926M	0.277	kg	Marine Transceiver, Displayless, 3keys, ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C Marine Transceiver, Display, 3keys, ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C Marine Transceiver, Display, 8 keys, ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C Marine Transceiver, Display, 20 keys, ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C
HT900 Marine UHF	HT982M HT983M HT985M HT986M	0.277	kg	Marine Transceiver, Displayless, 3keys, ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C Marine Transceiver, Display, 3keys, ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C Marine Transceiver, Display, 8 keys, ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C Marine Transceiver, Display, 20 keys, ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C
HT900 Land UHF	HT982 HT983 HT985 HT986	0.277	kg	Land Transceiver, Displayless, 3keys, ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C Land Transceiver, Display, 3keys, ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C Land Transceiver, Display, 8 keys, ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C Land Transceiver, Display, 20 keys, ATEX II 2G Ex ib IIC T4 Gb Ta= -20C to +40C
Battery Packs	CNB420E CNB450E CNB750E CNB450E-IS CNB550EV2 CNB950EV2 CLB750G	0.10 0.12 0.12 0.12 0.13 0.13 0.14	kg	1350mAh Rechargeable Lithium-Ion Battery Pack with Rear Clip 2200mAh Rechargeable Lithium-Ion Battery Pack with Rear Clip 2200mAh Rechargeable Lithium-Ion Battery Pack with Rear Clip 2200mAh Rechargeable Lithium-Ion Battery Pack with Rear Clip 1800mAh Rechargeable Lithium-Ion Battery Pack with Rear Clip 1800mAh Rechargeable Lithium-Ion Battery Pack with Rear Clip Primary Lithium battery pack with Real Clip

<Material Information>

This material information shows the amount of hazardous materials contained

	Unit
1	piece

in

Table	Material Name		Threshold level	Present above threshold level	IF YES Material Mass		IF YES Information on where it is used
				Yes / No	Amount	Unit	
Table A (materials listed in appendis 1 of the Convention)	Asbestos		0.10%	No			
	Polychlorinated Biphenyls (PCBs)		50mg/kg	No			
	Ozone depleting Substances	Chlorofluorcaobons (CFCs)	no threshold level	No			
		Halons		No			
		Other fully Halogenated CFCs		No			
		Carbon Tetrachloride		No			
		1,1,1-Trichloroethane		No			
		Hydrochlorofluorcarbons		No			
		Hydrobromofluorcarbons		No			
		Methyl Bromide		No			
		Bromochloromethane		No			
	Anti-fouling systems containing organotin compounds as a biocide		2,500 mg total tin/kg	No			
Table B **	Cadmium and Cadmium Compounds		100 mg/kg	No			
	Hexavalent Chromium and Hexavalent		1000 mg/kg	No			

(materials listed in appendis 2 of the Convention)	Chromium Compounds					
	Lead and Lead Compounds	1000 mg/kg	No			
	Mercury and Mercury Compounds	1000 mg/kg	No			
	Polybrominated Biphenyl (PBBs)	50 mg/kg	No			
	Polybrominated Diphenyl Ether (PBDEs)	1000 mg/kg	No			
	Polychloronaphalenes (Cl>=3)	50 mg/kg	No			
	Radioactive substances	no threshold level	No			
	Certain Shortchain Chlorinated Paraffins	1%	No			
Annex II* ** (Additional Materials)	Perfluorooctane sulfonic acid (PFOS)	10 mg/kg****	No			
	Brominated Flame Retardant (HBCDD)	100 mg/kg	No			

*Please refer to footnote 18 on the "Form of Material Declaration" in the IMO Guidelines Resolution MEPC.269(68).
**Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships, 2009 (SR/CONF/45).
***Regulation EU No. 1257/2013 of the European Parliament and of the Council of 20 November 2013 on Ship Recycling and amending Regulation EC No. 1013/2006 and Directive 2009/16/EC EMSA's Best Practice Guidance on the Inventory of Hazardous Materials, dated 2016-10-28
****Concentrations of PFOS above 10 mg/kg (0.001% by weight) when it occurs in substances or in preparations or concentrations of PFOS in semi-finished products or articles, or parts thereof equal to or above than 0.1% by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or for textiles or other coated materials, if the amount of PFOS is equal to or above than 1 µg/m² of the coated material.