

Name of Supplier: SunwodaElectronic Co.,Ltd
Manufacturer's Name: SunwodaElectronic Co.,Ltd
Address: No.2,Yihe Rd.,Shilong Community,Shiyan Street,Baoan District,Shenzhen,China
Tel: 0755-29516888 Fax: 0755-29517078

Document No. : 202401002

Issued/Revised date: Jan 19th, 2024

Explanatory sheet about safety of product for transportation

(Safety Data Sheet for transportation)

1. Basic item

Product name: Rechargeable Li-Polymer Battery pack

UN number: 3480

Product code: Refer to Table 1.

model name: Refer to Table 1.

Manufacturer Name: Sunwoda Electronic Co., Ltd

Address: No.2,Yihe Rd.,Shilong Community,Shiyan Street,Baoan District,Shenzhen,China

Phone number: 0755-29516888

Fax number: 0755-29517078

2. Product information

Basic composition of the product This product is a battery which consists of such main component as core battery pack assembled with some Lithium ion cells. And it consists of any combination of plastic casing, tube casing, protection circuit boards, safety devices and interface terminals

3. Safety Information

Sunwoda certifies the battery has passed and satisfied the UN Manual of Tests and Criteria Part III, sub-section 38.3 testing in Sunwoda shipping. - Sunwoda manufactured the battery under the quality management program required in UN Model regulations 2.9.4(e)..

3-1 : Battery pack

1. The Watt-hour rating of the battery is not more than 100Wh.

The Watt-hour rating of the component Lithium ion cells is not more than 20Wh.

Refer to Appendix "MSDS (202301002)".

2. Packages of the battery satisfy the following conditions when Sunwoda ships.

(1) The package has passed the drop test from the height of 1.2m.

(2) The package net weight is not more than 10kg.

(3) The package is marked and labeled according to requirement of Packing Instruction 965 Section IB stated in ICAO's and IATA's dangerous goods regulations.

3. The battery is not defective for safety reasons, not damaged. It is not collected battery for recycling or disposal.

4. The battery is not subject to the fully regulated requirements for Dangerous Goods in ocean and ground transportation.

5. The battery should be transported by Cargo aircraft as UN3480, Class 9 Dangerous Goods, and state of charge not exceeding 30%, according to Packing Instruction 965 Section IB stated in ICAO's and

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IATA's dangerous goods regulations.

ASSM PN	FRU PN	Battery Model	WH Rating	Weight (g)	Li Content (g)	Cell Voltage (VDC)	Battery Voltage	Battery Supplier	SDS File	UN38.3 File
SB10T83190	5B10W13947	L18D3PG1	42	190	3.36	3.75	11.25	SWD	MSDS_202401002	SB10T83190_UN38.3
5B10S75394	SB10W52018	L18D3PG1	42	190	3.36	3.75	11.25	SWD	MSDS_202401002	5B10S75394_UN38.3
SB10W52018	5B10T36868	L18D3PG1	42	190	3.36	3.75	11.25	SWD	MSDS_202401002	SB10W52018_UN38.3
SB10X49071		L19D3PD6	52.5	207.7	4.11	3.84	11.52	SWD	MSDS_202401002	SB10X49071_UN38.3
SB10X63139		L19D4PG2	51	229	3.99	3.84	7.68	SWD	MSDS_202401002	SB10X63139_UN38.3
SB10Z49515	5B10Z49514	L19D4PH3	61	246	4.76	3.86	15.44	SWD	MSDS_202401002	SB10Z49515_UN38.3
SB11N52064	5B11N52060	L19D4PH3	61	246	4.76	3.86	15.44	SWD	MSDS_202401002	SB11N52064_UN38.3
SB10T83218	5B10W13975	L20D4P71	57	225	4.43	3.86	15.44	SWD	MSDS_202401002	SB10T83218_UN38.3
SB11M89859	5B11M90058	L20D4P71	57	225	4.43	3.86	15.44	SWD	MSDS_202401002	SB11M89859_UN38.3
SB10W51948	5B10W51825	L20D3P72	41	179	3.21	3.84	11.52	SWD	MSDS_202401002	SB10W51948_UN38.3
SB10W51921	5B10W51820	L20D4P73	54.7	220	4.28	3.84	15.36	SWD	MSDS_202401002	SB10W51921_UN38.3
SB11B79216	5B11K79218	L20D4P75	90	329	6.98	3.87	15.48	SWD	MSDS_202401002	SB11B79216_UN38.3
SB11K07735	5B11K07737	L20D4P75	90	329	6.98	3.87	15.48	SWD	MSDS_202401002	SB11K07735_UN38.3
SB11M89863	5B11M90062	L20D4P75	90	329	6.98	3.87	15.48	SWD	MSDS_202401002	SB11M89863_UN38.3
SB10W51924	5B10W51823	L20D3P71	57	247	4.46	3.84	15.36	SWD	MSDS_202401002	SB10W51924_UN38.3
SB11B36299	5B11B36319	L20D3PG0	47	208.1	3.69	3.84	11.52	SWD	MSDS_202401002	SB11B36299_UN38.3
SB11C87809	5B11C87805	L20D3PG1	57	252.5	5.94	3.84	11.52	SWD	MSDS_202401002	SB11C87809_UN38.3
SB11B36318	5B11B36314	L20D3PG2	42	208.2	3.36	3.75	11.25	SWD	MSDS_202401002	SB11B36318_UN38.3
SB11B48818	5B11B48819	L20D4PC0	60	257	4.74	3.84	15.36	SWD	MSDS_202401002	SB11B48818_UN38.3
SB11B48822	5B11B48824	L20D4PC1	80	350	6.40	3.85	15.4	SWD	MSDS_202401002	SB11B48822_UN38.3
SB11B65326	5B11B65323	L20D4PD1	53	206	4.11	3.87	15.48	SWD	MSDS_202401002	SB11B65326_UN38.3
SB11C73241	5B11C73242	L20D3PD4	57	225	4.52	3.85	11.52	SWD	MSDS_202401002	SB11C73241_UN38.3
SB11N52027	5B11N52015	L20D3PD4	57	225	4.52	3.85	11.52	SWD	MSDS_202401002	SB11N52027_UN38.3
SB11B96720	5B11B96715	L20D3PC2	45	189	3.52	3.85	11.52	SWD	MSDS_202401002	SB11B96720_UN38.3
SB11D64647	5B11D64649	L21D4PG0	42	163.5	3.29	3.86	7.72	SWD	MSDS_202401002	SB11D64647_UN38.3



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SB11D708 93	5B11D7089 1	L21D3PF0	42	200	3. 36	3. 75	11. 25	SWD	MSDS_20240 1002	SB11D70893_UN38. 3
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SB11N517 21	5B11N5172 8	L21D3PF0	42	200	3.36	3.75	11.25	SWD	MSDS_20240 1002	SB11N51721_UN38. 3
SB10W519 68	5B10W518 67	L21D4P71	52.5	212	4.07	3.87	15.48	SWD	MSDS_20240 1002	SB10W51968_UN38. 3
SB11M898 30	5B11M900 29	L21D4P71	52.5	212	4.07	3.87	15.48	SWD	MSDS_20240 1002	SB11M89830_UN38. 3
SB10W519 71	5B10W518 70	L21D4P72	52.5	212	4.08	3.87	15.48	SWD	MSDS_20240 1002	SB10W51971_UN38. 3
SB11M898 37	5B11M900 36	L21D4P72	52.5	212	4.08	3.87	15.48	SWD	MSDS_20240 1002	SB11M89837_UN38. 3
SB10W519 74	5B10W518 73	L21D4P73	86	315	6.67	3.87	15.48	SWD	MSDS_20240 1002	SB10W51974_UN38. 3
SB11M898 40	5B11M900 39	L21D4P73	86	315	6.67	3.87	15.48	SWD	MSDS_20240 1002	SB11M89840_UN38. 3
SB11E402 05	5B11E4021 0	L21D4PD6	62	247	4.80	3.88	15.52	SWD	MSDS_20240 1002	SB11E40205_UN38. 3
SB11N460 16	5B11N4599 4	L21D4PD6	62	247	4.80	3.88	15.52	SWD	MSDS_20240 1002	SB11N46016_UN38. 3
SB11H315 70	5B11H3157 1	L21D4PE0	70	261.3 9	4.06	3.88	15.52	SWD	MSDS_20240 1002	SB11H31570_UN38. 3
SB11H315 70	5B11N5175 8	L21D4PE0	70	261.3 9	4.06	3.88	15.52	SWD	MSDS_20240 1002	SB11H31570_UN38. 3
SB11E335 49	5B11E3355 2	L21D3PD4	57	223.5	4.51	3.85V	11.52	SWD	MSDS_20240 1002	SB11E33549_UN38. 3
SB10W519 81	5B10W518 80	L21D4P75	49.5	198	3.84	3.87	7.74	SWD	MSDS_20240 1002	SB10W51981_UN38. 3
SB11M898 82	5B11M900 81	L21D4P75	49.5	198	3.84	3.87	7.74	SWD	MSDS_20240 1002	SB11M89882_UN38. 3
SB11F241 45	5B11F2416 3	L21D4PC0	60	260	4.74	3.85V	15.44	SWD	MSDS_20240 1002	SB11F24145_UN38. 3
SB11N474 24	5B11N4748 9	L21D4PC0	60	260	4.74	3.85V	15.44	SWD	MSDS_20240 1002	SB11N47424_UN38. 3
SB11H562 39	5B11H5633 8	L21D3PG1	42	191.5	3.36	3.75V	11.25	SWD	MSDS_20240 1002	SB11H56239_UN38. 3
SB11M897 98	5B11M899 97	L21D3PG1	42	191.5	3.36	3.75V	11.25	SWD	MSDS_20240 1002	SB11M89798_UN38. 3
SB10W519 56	5B10W518 55	L20D4P73	54.7	220	4.28	3.84	15.36	SWD	MSDS_20240 1002	SB10W51956_UN38. 3
SB11M898 76	5B11M9007 5	L20D3P72	41	220	3.21	3.84	15.36	SWD	MSDS_20240 1002	SB11M89876_UN38. 3
SB11F363 67	5B11F3637 0	L21D3PC0	44	204	3.56	3.86	11.58	SWD	MSDS_20240 1002	SB11F36367_UN38. 3
SB11F991 97	5B11F9919 8	L21D4PG4	51	196.7	3.97	3.86	7.72	SWD	MSDS_20240 1002	SB11F99197_UN38. 3
SB11F540 02	5B11F5400 1	L21D4PG3	51	193.4	3.97	3.86	15.44	SWD	MSDS_20240 1002	SB11F54002_UN38. 3
SB11G000 01	5B11F9999 9	L21D4PH3	50.2	198	3.91	3.86	7.72	SWD	MSDS_20240 1002	SB11G00001_UN38. 3
SB11N517 65	5B11N5172 7	L21D4PH3	50.2	198	3.91	3.86	7.72	SWD	MSDS_20240 1002	SB11N51765_UN38. 3
SB10W652 91		L19D4PF4	60.7	247	4.75	3.84	15.36	SWD	MSDS_20240 1002	SB10W65291_UN38. 3
SB11H562 69	5B11H5636 8	L22D4P70	54.7	206.4 3	4.24	3.87	15.48	SWD	MSDS_20240 1002	SB11H56269_UN38. 3
SB11M898 51	5B11M900 50	L22D4P70	54.7	206.4 3	4.24	3.87	15.48	SWD	MSDS_20240 1002	SB11M89851_UN38. 3

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SB11H562 73	5B11H5637 2	L22D3P76	41	167.9 5	3.18	3.87	11.61	SWD	MSDS_20240 1002	SB11H56273_UN38. 3
SB11M898 55	5B11M900 54	L22D3P76	41	167.9 5	3.18	3.87	11.61	SWD	MSDS_20240 1002	SB11M89855_UN38. 3
SB11H562 86	5B11H5638 5	L22D3P77	57	210.7 9	4.3875	3.9	11.7	SWD	MSDS_20240 1002	SB11H56286_UN38. 3
SB11H562 86	5B11H5638 5	L22D3P77	57	210.7 9	4.3875	3.9	11.7	SWD	MSDS_20240 1002	SB11H56286_UN38. 3
SB11K385 32	5B11K3852 8	L22D4PA0	60	250.1	4.656	3.86	15.44	SWD	MSDS_20240 1002	SB11K38532_UN38. 3
SB11N460 00	5B11N4595 3	L22D4PA0	60	250.1	4.656	3.86	15.44	SWD	MSDS_20240 1002	SB11N46000_UN38. 3
SB11K389 67	5B11K3896 3	L22D4PA1	71	268.9	5.5476	3.84	15.36	SWD	MSDS_20240 1002	SB11K38967_UN38. 3
SB11N460 02	5B11N4598 2	L22D4PA1	71	268.9	5.5476	3.84	15.36	SWD	MSDS_20240 1002	SB11N46002_UN38. 3
SB11K630 31	5B11K6303 3	L22D3PG5	57	224.6 5	4.4532	3.85	11.52	SWD	MSDS_20240 1002	SB11K63031_UN38. 3
SB11N563 42	5B11N5634 1	L22D3PG5	57	224.6 5	4.4532	3.85	11.52	SWD	MSDS_20240 1002	SB11N56342_UN38. 3
SB11K393 65	5B11K3934 9	L22D4PA5	75.4	299	5.89	3.85	15.36	SWD	MSDS_20240 1002	SB11K39365_UN38. 3
SB11N454 25	5B11N4541 8	L22D4PA5	75.4	299	5.89	3.85	15.36	SWD	MSDS_20240 1002	SB11N45425_UN38. 3
SB11K391 10	5B11K3911 3	L22D4PA2	73.6	275	5.69	3.88	15.52	SWD	MSDS_20240 1002	SB11K39110_UN38. 3
SB11N459 51	5B11N4601 9	L22D4PA2	73.6	275	5.69	3.88	15.52	SWD	MSDS_20240 1002	SB11N45951_UN38. 3
SB11H562 43	5B11H5634 2	L21D3PG2	57	223.9 5	4.4532	3.85	11.52	SWD	MSDS_20240 1002	SB11H56243_UN38. 3
SB11M898 06	5B11M900 05	L21D3PG2	57	223.9 5	4.4532	3.85	11.52	SWD	MSDS_20240 1002	SB11M89806_UN38. 3
SB11H562 47	5B11H5634 6	L21D3P71	63	228.5	4.87	3.88	11.64	SWD	MSDS_20240 1002	SB11H56247_UN38. 3
SB11M898 14	5B11M900 13	L21D3P71	63	227.6	4.87	3.88	11.64	SWD	MSDS_20240 1002	SB11M89814_UN38. 3
SB11K864 40	5B11K8644 1	L22D3PF8	47	188.5	3.7404	3.77	11.31	SWD	MSDS_20240 1002	SB11K86440_UN38. 3
SB11K247 67	5B11K2476 3	L22D4PF4	73	270	5.646	3.88	15.52	SWD	MSDS_20240 1002	SB11K24767_UN38. 3
SB11N453 18	5B11N4530 3	L22D4PF4	73	270	5.646	3.88	15.52	SWD	MSDS_20240 1002	SB11N45318_UN38. 3
SB11K247 60	5B11K2476 8	L22D4PF5	75	276.7 5	5.786	3.89	15.56	SWD	MSDS_20240 1002	SB11K24760_UN38. 3
SB11N453 35	5B11N4530 6	L22D4PF5	75	276.7 5	5.786	3.89	15.56	SWD	MSDS_20240 1002	SB11N45335_UN38. 3
SB11K247 49	5B11K2474 6	L22D2PG2	38	155.3	2.9688	3.85	7.68	SWD	MSDS_20240 1002	SB11K24749_UN38. 3
SB11N563 37	5B11N5633 9	L22D2PG2	38	155.3	2.9688	3.85	7.68	SWD	MSDS_20240 1002	SB11N56337_UN38. 3
SB11K086 56	5B11K0865 3	L22D3PG1	56	222.1	4.453	3.84	15.52	SWD	MSDS_20240 1002	SB11K08656_UN38. 3
SB11J636 16	5B11J6362 1	L22D4PF0	58.5	229	4.66	3.86	15.44	SWD	MSDS_20240 1002	SB11J63616_UN38. 3
SB11N453 20	5B11N4532 6	L22D4PF0	58.5	229	4.66	3.86	15.44	SWD	MSDS_20240 1002	SB11N45320_UN38. 3



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SB11J636 18	5B11J6361 9	L22D4PF1	65	249.0 7	5.028	3.88	15.52	SWD	MSDS_20240 1002	SB11J63618_UN38. 3
SB11N453 27	5B11N4534 0	L22D4PF1	65	249.0 7	5.028	3.88	15.52	SWD	MSDS_20240 1002	SB11N45327_UN38. 3
SB11L673 21	5B11L6732 7	L22D3PE0	45	179	3.519	3.84	11.52	SWD	MSDS_20240 1002	SB11L67321_UN38. 3
SB11L673 21	5B11N4749 5	L22D3PE0	45	179	3.519	3.84	11.52	SWD	MSDS_20240 1002	SB11L67321_UN38. 3
SB11L673 25	5B11L6732 9	L22D4PE0	60	237.6 9	4.692	3.84	15.36	SWD	MSDS_20240 1002	SB11L67325_UN38. 3
SB11N474 44	5B11N4743 4	L22D4PE0	60	237.6 9	4.692	3.84	15.36	SWD	MSDS_20240 1002	SB11N47444_UN38. 3
SB11K093 08	5B11K0931 3	L22D3PF2	47	193.9	4.11	3.77	11.31	SWD	MSDS_20240 1002	SB11K09308_UN38. 3
SB11N453 16	5B11N4531 1	L22D3PF2	47	193.9	4.11	3.77	11.31	SWD	MSDS_20240 1002	SB11N45316_UN38. 3
SB11K247 62	5B11K2475 5	L22D4PF3	75	287.3	5.7864	3.89	15.56	SWD	MSDS_20240 1002	SB11K24762_UN38. 3
SB11N453 33	5B11N4530 4	L22D4PF3	75	287.3	5.7864	3.89	15.56	SWD	MSDS_20240 1002	SB11N45333_UN38. 3
SB11M646 16	5B11M646 10	L23D4PK4	60	251	4.664	3.86	15.44	SWD	MSDS_20240 1002	SB11M64616_UN38. 3
SB11M674 93	5B11M674 97	L23D4PG1	85	287	6.54	3.9	15.6	SWD	MSDS_20240 1002	SB11M67493_UN38. 3
SB11Q402 26	5B11Q4022 8	L24D4PC1	99.9	383.2 8	7.734	3.88	15.52	SWD	MSDS_20240 1002	SB11Q40226_UN38. 3
SB11Q402 26	5B11Q4022 8	L24D4PC1	99.9	383.2 8	7.734	3.88	15.52	SWD	MSDS_2024 01002	SB11Q40226_UN38. 3



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MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Identification :
Lithium-Ion Rechargeable Battery Pack
Cell Type : All Polymer models Cosmx manufactured
Cell manufacturers: Zhuhai Cosmx Battery Co.,Ltd

2. Hazards Identification

Class Name: Not applicable for regulated class

Hazard: It may cause heat generation or electrolyte leakage if battery terminals contact with other metals. Electrolyte is flammable.
In case of electrolyte leakage, move the battery from fire immediately.

Toxicity: Vapor generated from burning batteries, may make eyes, skin and throat irritate.

3. Composition / Identification on Ingredients

IMPORTANT NOTE:
The battery should not be opened or burned since the following ingredients containedwithin the battery that could be harmful under some circumstance if exposed or misused.
The cell contains neither metallic lithium nor lithium alloy.

Composition:

3-1. Cases: Plastic Not
dangerous 3-2. Printed Circuit Board Assembly Not
dangerous 3-3. Lithium Ion Cell:

MATERIAL OR INGREDIENT	PEL(OSHA)	TLV(ACGIH)	wt%
Graphite (CAS# 7782-42-5)	5mg/m3 TWA(respirable fraction) 15mg/m3 TWA(tatal dust)	2mg/m3 TWA(respirable fraction)	7~25
Lithium Cobalt Oxide (CAS# 12190-79-3)	0.1mg/m3 TWA(as Co)	0.02mg/m3 TWA (as Co)	15~40
Hexafluoropropylene-vinylidene fluoride Copolymer (CAS#9011-17-0)	None established	None established	3~15
Lithium Hexafluorophosphate (CAS#21324-40-3)	None established	None established	0~5
Acetylene Black (CAS#1333-86-4)	3.5mg/m3 TWA (as carbonate black)	3.5mg/m3 TWA (as carbonate black)	0~2



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Diethyl Carbonate (CAS#105-58-8)	None established	None established	0-15
Dimethyl Carbonate (CAS#616-38-6)	None established	None established	0-15
Ethyl Methyl Carbonate (CAS#623-53-0)	None established	None established	0-15
Propylene Carbonate (CAS#108-32-7)	None established	None established	0-15
Ethylene Carbonate (CAS#96-49-1)	None established	None established	0-15

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4. First Aid Measures

The product contains organic electrolyte. In case of electrolyte leakage from the battery, actions described below are required.

Eye contact: Flush the eyes with plenty of clean water for at least 15 minutes immediately, without rubbing, and call a doctor. If appropriate procedures are not taken, this may cause an eye irritation.

Skin contact: Wash the contact areas off immediately with plenty of water and soap. If appropriate procedures are not taken, this may cause sores on the skin.

Inhalation: Remove to fresh air immediately, and call a doctor.

5. Fire Fighting Measures

- Use specified extinguishers (gas, foam, powder) and extinguishing system under the Fire Defense Law.
- Since corrosive gas may be produced at the time of fire extinguishing, use an air inhalator when danger is predicted.
- Use a large amount of water as a supportive measure in order to get cooling effect if needed. (Indoor/outdoor fire hydrant)
- Carry away flammable materials immediately in case of fire.
- Move batteries to a safer place immediately in case of fire.

6. Accidental Release Measures

- Wipe off with dry cloth
- Keep away from fire
- Wear safety goggles, safety gloves as needed

7. Precautions for Safe Handling and Use

Storage: Store within the recommended limit of -20°C to 45°C (-4°F to 113°F), well -ventilated area. Do not expose to high temperature (60°C/140°F). Since short circuit can cause burn hazard or gas release, do not store with metal jewelry, metal covered tables, or metal belt. The lithium ion battery should be between 25% and 75% of full charge when stored for a long period of time. Store in a cool, dry, well ventilated area. And temperature above 100 Celsius degree can result in loss of battery performance, leakage, or rust. Do not expose the battery to open flames..

Handling: Do not disassemble, remodel, or solder. Do not short + and - terminals with a metal. Do not open the battery.

Charging: Charge within the limits of 0°C to 45°C (32°F to 113°F) temperature. Charge with specified charger designed for this battery.

Discharging: Discharge within the limits of -20°C to 60°C (-4 °F to 140°F) temperature. Disposal : Dispose in accordance with applicable federal, state and local regulations. Caution: Fire, Explosion, and Severe Burn Hazard. Do not Crush, Disassemble, Heat Above 100°C/212°F, or Incinerate.

8. Exposure Controls / Personal Protection (In case electrolyte is leaked from battery)

Acceptable concentration: Not specified in ACGIH. Facilities: Provide appropriate ventilation such as local ventilation system in the storage. Protective clothing: Gas mask for organic gases, safety goggle, safety glove.

9. Physical and Chemical Properties

State	Solid
Odor	N/A
PH	N/A
Vapor pressure	N/A
Vapor density	N/A

Name of Supplier: SunwodaElectronic Co.,Ltd
Manufacturer's Name: SunwodaElectronic Co.,Ltd
Address: No.2,Yihe Rd.,Shilong Community,Shiyan Street,Baoan District,Shenzhen,China
Tel: 0755-29516888 Fax: 0755-29517078

Boiling point	N/A
Solubility in water	Insoluble
Specific gravity	N/A
Density	N/A

10. Stability and Reactivity

External short-circuit, deformation by crush, high temperature (over 100°C) exposure of a battery cause generation of heat and ignition.

11. Toxicological Information

Acute toxicity: No information as a battery. Local effects: No information as a battery.

12. Ecological Information

When exhausted battery is buried in the ground, corrosion may be caused on the outer case of battery and electrolyte may be oozed. There is no information on environmental influence.

13. Disposal Consideration

When battery is disposed, isolate positive (+) and negative (-) terminals of the battery to avoid those terminals from touching each other. Batteries may be short-circuited when piled up or mixed with the other batteries in disorder. Dispose in accordance with applicable federal, state and local regulations

14. Transport Information

In the case of transportation, avoid exposure to high temperature and prevent the formation of any condensation. Take in a cargo of them without falling, dropping and breakage. Prevent collapse of cargo piles and wet by rain. The container must be handled carefully. Do not give shocks that result in a mark of hitting on a cell. Please refer to Section 7-HANDLING AND STORAGE also.

UN regulation

UN number: 3480 (3481 when the battery is contained in equipment or packed with equipment) Proper shipping name: Lithium ion batteries (“lithium ion batteries contained in equipment” or “lithium ion batteries packed with equipment”) Class: 9 *

* Although this product meets the criteria of “dangerous goods” and are classified as “lithium ion batteries”, depending on the battery’s total capacity in the packaging, etc., they may not be subject to the fully regulated provisions.

Regulation depends on region and transportation mode

Worldwide - Air transportation:

ICAO/IATA-DGR [packing instruction 965 section IB or II] (When shipping batteries “packed with” or “contained in” equipment, use packing instruction 966 or 967 as appropriate.)

Worldwide - Ocean transportation:

IMO-IMDG Code [special provision 188]

Europe - Ground transportation: ADR [special provision 188]

**Instructions or provisions in the box brackets are conditions to make the battery cell exempted from full regulation.*

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15. Regulatory Information

- IMDG Code: International Maritime Dangerous Goods (IMDG) Code 2022 Edition
- ICAO TI: International Civil Aviation Organization (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air 2023-2024 Edition
- IATA DGR: International Air Transport Association (IATA) Dangerous Goods Regulations 65th Edition

16. Other Information

The application of the regulations can vary according to the aviation company, SWD, therefore, highly recommends that you consult with the aviation company prior to transporting battery or cell. This information has been compiled from sources considered to be reliable and to the best of our knowledge, accurate and reliable. However, SWD does not accept liability for any loss or damage that may occur, direct or indirect, from using this information.