



Name of Supplier: SunwodaElectronic Co.,Ltd Manufacturer's Name: Sunwoda Electronic Co.,Ltd

Address: No.2,Yihe Rd.,Shilong Cummunity,Shiyan Street,Baoan District,Shenzhen,China Tel: 0755-29516888 Fax: 0755-29517078

Document No.: 202401001

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 Cummunity, 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(202401001)".

- 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 IATA's dangerous goods regulations.



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Table. 1 Model list of application

Model lis	t of applic	ation						I	
FRU PN	Battery Model	WH Rati ng	Weig ht (g)	Li Conte nt (g)	Cell Voltage (VDC)	Battery Voltage	Batter ySupp lier	SDS File	UN38.3 File
	L19D4PD1	60	250	4.69	3.84	7. 68	SWD	MSDS_20240100 1	5B10U65275_UN3 8.3
	L18D4P90	46	191	3.59	3.84	15.36	SWD	1	SB10T83121_UN3 8.3
5B10X025 94	L19D3PD5	45	221	4. 97	3. 7	11.1	SWD	MSDS_20240100 1	SB10X02605_UN3 8.3
5B11N563 40	L19D3PD5	45	221	4. 97	3. 7	11.1	SWD	MSDS_20240100 1	SB11N56336_UN3 8.3
5B10Z211 97	L19D3PDA	45	199	3. 52	3.86	11.58	SWD	MSDS_20240100 1	SB10Z21196_UN3 8.3
5B11N520 52	L19D3PDA	45	199	3. 52	3.86	11.58	SWD	1	SB11N52079_UN3 8.3
5B10W51 816	L20D4P72	57	232.4	4.45	3.84	15.36	SWD	MSDS_20240100 1	SB10W51917_UN3 8.3
5B10W51 876	L21D4P74	57	272. 1	4. 45	3.84	15.36	SWD	MSDS_20240100 1	SB10W51977_UN3 8.3
5B11M90 032	L21D4P74	57	272. 1	4. 45	3. 84	15. 36	SWD	1	SB11M89833_UN3 8.3
5B11H563 36	L21D4PG1	46	205. 8	3. 59	3. 84	15. 36	SWD	1	SB11H56237_UN3 8.3
5B11D971 38	L21D4PH0	75	287	5. 80	3. 88	15. 52	SWD	1	SB11D97144_UN3 8.3
40	L21D4PH0	75	287	5.80	3. 88	15. 52	SWD	1	SB11N52021_UN3 8.3
21	L21D4PE1	59	229	4. 58	3. 88	15.52	SWD	1	SB11F29418_UN3 8.3
62	L21D4PE1	59	229	4. 58	3. 88	15. 52	SWD	1	SB11N47449_UN3 8.3
81	L21D3P70	49. 57	200	3.84	3. 87	11.61	SWD	1	SB11F28678_UN3 8.3
064	L21D3P70	49.57	200	3.84	3. 87	11.61	SWD	1	SB11M89865_UN3 8.3
77	L21D2PG2	29	114	4.56	3. 85	7. 7	SWD	1	SB11F38375_UN3 8. 3
00	L21D4PC2	99.9	380	7.73	3. 88	15. 52	SWD	1	SB11F53995_UN3 8.3 SB11N51741_UN3
31	L21D4PC2	99.9	380	7. 73	3. 88	15. 52	SWD	1	8. 3 SB11K63023_UN3
20	L22D3PG4	47	193. 5	3. 74	3. 77	11.31	SWD	1	8.3
05	L22D3PG4	47	193. 5	3.74	3. 77	11. 31	SWD	1	SB11N45976_UN3 8. 3
30	L22D3PG0	47	183. 25	3. 7404	3. 77	11. 31	SWD	1	SB11K08436_UN3 8.3
61	L22D4PC0	80	340	6. 2184	3. 87	15. 44	SWD	1	SB11K38956_UN3 8.3
28	L22D4PC0	80	340	6. 2184	3. 87	15. 44	SWD	1	SB11N45409_UN3 8.3
5B11K387 44	L22D4PC2	80	334	6. 2184	3. 87	15. 44	SWD	MSDS_20240100 1	SB11K38742_UN3 8.3
	FRU PN  FRU PN  5B10X025 94  5B11N563 40  5B11N520 52  5B10W51 816  5B10W51 876  5B11M90 032  5B11H563 36  5B11D971 38  5B11N520 40  5B11F294 21  5B11F286 81  5B11F286 81  5B11F286 81  5B11F383 77  5B11F383 77  5B11F540 00  5B11R383 77  5B11R580 20  5B11N517 31  5B11K630 20  5B11N460 05  5B11K084 30  5B11K389 61  5B11K389 61  5B11N454 28  5B11N454	FRU PN         Battery Model           L19D4PD1         L19D4PD1           5B10X025         L19D3PD5           5B11N563         L19D3PD5           5B10Z211         L19D3PDA           5B11N520         L19D3PDA           5B10W51         L20D4P72           5B11M90         L21D4P74           5B11N520         L21D4P74           5B11N90         L21D4P61           5B11N50         L21D4PH0           5B11F294         L21D4PE1           5B11F286         L21D3P70           5B11F383         L21D3P70           5B11F383         L21D2PG2           5B11N517         L21D4PC2           5B11N517         L21D4PC2           5B11N517         L21D4PC2           5B11K630         L22D3PG4           5B11K084         L22D3PG4           5B11K389         L22D3PG0           5B11K389         L22D4PC0           5B11K387         L22D4PC0	FRU PN         Battery Model         Rati ng           L19D4PD1         60           L18D4P90         46           5B10X025 94         L19D3PD5         45           5B11N563 40         L19D3PD5         45           5B10Z211 97         L19D3PDA         45           5B10X520 52         L19D3PDA         45           5B10W51 816         L20D4P72         57           5B10W51 876         L21D4P74         57           5B11M90 032         L21D4P74         57           5B11M90 032         L21D4P61         46           5B11N520 40         L21D4P61         75           5B11N520 40         L21D4PH0         75           5B11F294 21         L21D4PE1         59           5B11F294 21         L21D3P70         49.57           5B11F383 77         L21D3P70         49.57           5B11F383 77         L21D4PC2         99.9           5B11K387         L22D3PG4         47           5B11N517 31         L21D4PC2         99.9           5B11K084 30         L22D3PG4         47           5B11K084 30         L22D3PG0         47           5B11K389 61         L22D4PC0         80           5	FRU PN         Battery Model         WH Rati ng ht (g)         Weig ht (g)           L19D4PD1         60         250           L18D4P90         46         191           5810X025 94         L19D3PD5         45         221           5811N563 40         L19D3PDA         45         199           5811N520 52         L19D3PDA         45         199           5810W51 816         L20D4P72         57         232.4           5811M90 032         L21D4P74         57         272.1           5811M90 032         L21D4P74         57         272.1           5811D971 38         L21D4P61 46         205.8           5811D971 38         L21D4P61 75         287           5811F294 21         L21D4P61 75         287           5811F294 21         L21D4P61 75         229           5811F286 81         L21D3P70 49.57         200           5811F383 77         L21D2PG2 29         114           5811F540 00         L21D4PC2 99.9         380           5811N517 31         L21D4PC2 99.9         380           5811N630 20         L22D3PG4 47         193.5           5811N684 30         L22D3PG4 47         193.5           5811K084 30	FRU PN         Battery Model         WH Rati Pati Pati Pati Pati Pati Pati Pati P	FRU PN         Battery Model         WH Model right (p)         Li Conte Conte (VDC)           L1904PDI         60         250         4.69         3.84           SB10X025 94         L19D3PD5         45         221         4.97         3.7           SB11X563 40         L19D3PD5         45         221         4.97         3.7           SB11X563 40         L19D3PDA         45         199         3.52         3.86           SB11X503 52         L19D3PDA         45         199         3.52         3.86           SB11X503 52         L19D3PDA         45         199         3.52         3.86           SB10W51 876 52         L21D4P74 57         272.1         4.45         3.84           SB11M90 032 53         L21D4P74 57         272.1         4.45         3.84           SB11M90 032 53         L21D4P74 57         272.1         4.45         3.84           SB11M90 032 53         L21D4P74 57         272.1         4.45         3.84           SB11M90 033 53         L21D4P61 59         2287 5.80         3.88           SB11M90 040 121D4P61 59         229 4.58         3.88           SB11M90 040 121D4P61 59         229 4.58         3.88           SB11M90 054 121D4P6	FRU PN         Battery Model         WH Rati Pn Mit (g)         Weig Lonte (v)D(c)         Cell Voltage (v)D(c)         Battery voltage (v)D(c) (v)D(c)         Batte	Raticy   Model   Rati   Weig   Conte   Voltage   Raticy   Supp   Model   Rati   Meig   Rati   Weig   Nt (g)   Nt (g)   Volcage   Raticy   Supp   Nt (g)   Nt (g)   Nt (g)   Volcage   Raticy   Supp   Nt (g)   Nt (g)   Nt (g)   Volcage   Raticy   Supp   Nt (g)   Nt (g)   Nt (g)   Volcage   Raticy   Supp   Nt (g)   Nt	FRU PN   Model   Rati   Weig   Conte voltage   Battery   Model   Rati   Weig   Conte voltage   Voltage   Battery   Voltage   Battery   Supp   SDS File



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SB11N453	5B11N454	L22D4PC2	80	334	6. 2184	3. 87	15. 44		MSDS_20240100	SB11N45399_UN3
99 CD11UFC9	32		00	001	0.2101	0.01	10.11	SWD	1	8. 3
SB11H562 55	5B11H563 54	L22D3P71	47	183. 65	3. 7404	3. 77	11.31	SWD	MSDS_20240100 1	SB11H56255_UN3 8.3
SB11H562 50	5B11H563 49	L22D3P70	46. 5	195. 96	3. 762	3. 77	11.31	SWD	MSDS_20240100 1	SB11H56250_UN3 8.3
SB11M898	5B11M90	12202070	4C F	105.00	2.769	2 77	11 01	3000	MSDS_20240100	SB11M89801_UN3
01	000	L22D3P70	46.5	195. 96	3. 762	3. 77	11.31	SWD	1	8. 3
SB11H563 26	5B11H564 25	L21D4PG1	46	206	3. 59	3. 84	15. 36	SWD	MSDS_20240100 1	SB11H56326_UN3 8.3
SB11K389 62	5B11K389 57	L22D4PC1	99.9	372	7. 728	3. 88	15. 52	SWD	MSDS_20240100 1	SB11K38962_UN3 8.3
SB11N454 27	5B11N454 04	L22D4PC1	99.9	372	7. 728	3. 88	15. 52	SWD	MSDS_20240100 1	SB11N45427_UN3 8.3
SB11K391 59	5B11K391 60	L22D4PC3	99.9	375. 5	7. 7052	3. 89	15. 56		MSDS_20240100 1	SB11K39159_UN3 8.3
SB11N459	5B11N459	L22D4PC3	99.9	375. 5	7. 7052	3. 89	15. 56	SWD	MSDS_20240100	SB11N45992_UN3
92 SB11K595	66 5B11K595							SWD	1 MSDS_20240100	8. 3 SB11K59568_UN3
68	67	L22D2PH1	35.6	152.6	6. 5	3. 88	7. 76	SWD	1	8. 3
SB11K595 68	5B11K595 67	L22D2PH1	35.6	152.6	6. 5	3. 88	7. 76	CIAID	MSDS_20240100 1	SB11K59568_UN3 8.3
SB11L931	5B11L932			201 20		2.04	1= 00	SWD	MSDS_20240100	SB11L93198_UN3
98	01	L22D4PE1	71	281.09	5. 55	3. 84	15. 36	SWD	1	8.3
SB11N474 51	5B11N475 13	L22D4PE1	71	281.09	5. 55	3. 84	15. 36	SWD	MSDS_20240100 1	SB11N47451_UN3 8.3
SB11M642 01	5B11M642 02	L23D4PH0	75	268. 76	5. 772	3. 9	15. 6	SWD	MSDS_20240100 1	SB11M64201_UN3 8.3
SB11H563 06	5B11H564 05	L23D3P76	58	242	4. 498	3. 87	11.61	SWD	MSDS_20240100 1	SB11H56306_UN3 8.3
SB11M375	5B11M37	L23D4P70	90	334. 25	6. 924	3. 9	15. 6	3000	MSDS_20240100	SB11M37549_UN3
49	553	L23D4F70	30	334, 23	0. 324	3. 9	10.0	SWD	1	8.3
SB11H562 98	5B11H563 97	L23D3P71	57	226. 4	4. 536	3. 77	11.31	SWD	MSDS_20240100 1	SB11H56298_UN3 8.3
SB11H562 95	5B11H563 94	L23D3P70	46. 5	188. 4	3. 7	3. 77	11.31	SWD	MSDS_20240100 1	SB11H56295_UN3 8.3
SB11H563 01	5B11H564 00	L23D3P73	57	235. 15	4. 536	3. 77	11.31	SWD	MSDS_20240100 1	SB11H56301_UN3 8. 3
	5B11M75							3440	MSDS 20240100	SB11M75492_UN3
SB11M754 92	491	L23D4PC3	99.9	373	7. 705	3.89	15. 56	SWD	1	8. 3
SB11M646	5B11M64 606	L23D4PK5	80	333	6. 2184	3. 87	15. 44	SWD	MSDS_20240100 1	SB11M64611_UN3 8.3
SB11P727	5B11P727	L23D4PH1	75	259. 39	5. 8	3. 85	7.7	SWD	MSDS_20240100	SB11P72757_UN3
57 SB11Q465	60 5B11Q465							5112	1 MSDS 20240100	8. 3 SB11Q46569_UN3
69	70	L24D4PH1	88	302. 17	6. 72	3. 9	15. 6	SWD	1	8.3
SB11P714 55	5B11P714 53	L24D4PE1	85	290. 79	6. 54	3. 9	7.8	SWD	MSDS_20240100 1	SB11P71455_UN3 8.3
SB11M898 96	5B11M900 95	L24D3P70	56. 9	218	4. 41	3. 87	11.61	SWD	MSDS_20240100 1	SB11M89896_UN3 8.3
SB11M899 06	5B11M901 05	L24D3P73	56. 9	218	4.41	3. 87	11.61	SWD	MSDS_20240100 1	SB11M89906_UN3 8.3
SB11P446	5B11P446 13	L23D2PG5	29	109.01	2. 24	3. 85	7.7	SWD	MSDS_20240100 1	SB11P44615_UN3 8. 3



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SB11Q325 33	5B11Q325 34	L24D3PF0	57. 5	226. 5	4.5	3. 77	11.31	SWD	MSDS_20240100 1	SB11Q32533_UN3 8.3
SB11M899 18	5B11M901 17	L24D3P77	47	185	3.6432	3. 77	11.31	SWD	MSDS_20240100 1	SB11M89918_UN3 8.3



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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 ATL manufactured Cell manufacturers: Amperex Technology Limited

#### 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 contained within the battery that could be harmful under some circumstance if exposed or misused.

The cell contains neither metallic lithium nor lithium alloy.

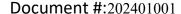
Composition:

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)	5 mg/m³ TWA	2mg/m³ TWA	7-25
Lithium cobalt (CAS# 12190-79-3)	0.1 mg/ m <sup>3</sup>	0.02mg/ m <sup>3</sup>	15-40
Lithium Hexafluorophosphate (CAS# 21324-40-3)	None established	None established	0-5
Acetylene Black (CAS# 1333-86-4)	3.5 mg/ m³ TWA (as carbon black)	3.5 mg/ m³ TWA (as carbon black)	0-2
Diethyl Carbonate (CAS# 105-58-8)	None established	None established	0-15





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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

#### 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

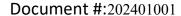
- Wipe off with dry cloth
- · Keep away from fire
- · Wear safety goggles, safety gloves as needed

#### 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





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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
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

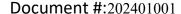
When battery is disposed, isolate positive (+) and negative (-) terminals of the battery to avoid those terminals from touching each other. Batteries may be short-circuited when piled up or mixed with the other batteries in disorder. Dispose in accordance with applicable federal, state and local regulations

# 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 \*



Fax: 0755-29517078



Name of Supplier: SunwodaElectronic Co.,Ltd Manufacturer's Name: Sunwoda Electronic Co.,Ltd Address: No.2,Yihe Rd.,Shilong Cummunity,Shiyan Street,Baoan District,Shenzhen,China

Tel: 0755-29516888

\* 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.

#### 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 65<sup>th</sup> 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.