



# Material Safety Data Sheet

Manufacturer	Axiss Technology Corp.
Add of Manufacturer	8F-1, 96, Long An Street, Taoyuan 33057, Taiwan.
Description	Rechargeable Li-ion Battery
Model/Type	<b>110-0328 / C-216-009880SAA</b>
Nominal Voltage	<b>21.6V</b>
Rated Capacity	<b>9880mAh</b>
Rated Energy	<b>213.408Wh</b>
Trade Name	/
Reference ocuments	ISO 11014:2009 Safety data sheet for chemical products-Content and order of sections GB/T 16483-2008 Safety data sheet for chemical products-Content and order of sections IATA Dangerous Goods Regulation (65 <sup>th</sup> ) IMO International Maritime Dangerous Goods Gode (41-22 edition)

Date of Receipt	<b>2024.06.14.</b>
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## Sample information

Sample Name	Rechargeable Li-ion Battery	Type	<b>110-0328 /C-216-009880SAA</b>
Nominal Voltage	<b>21.6V</b>	Rated Capacity	<b>9880mAh</b>
Shape	Prismatic		

## Content and instructions

### 1. Chemical product and company identification

Name of chemical product		Rechargeable Li-ion Battery
Manufacturer	Name	Axiss Technology Corp.
	Address	8F-1, 96, Long An Street, Taoyuan 33057, Taiwan.
	Telephone number	+886-3-369-8818
	Emergency telephone number	+886-3-369-8818
	E-mail address	anna.wu@axisstech.com

### 2. Hazards identification

#### 1) Important Physical and chemical hazards



When the battery is in extreme pressure deformation, high-temperature environment, overload, short-circuit condition, or disassemble the battery, an explosion of fire and chemical burn hazards may occur.

## 2) Effects of the human health

### Eyes

In normal condition, contact between the battery and eyes will not cause any harms. However, the gas volatilize from a damaged battery may be harmful to eyes.

### Skin

In normal condition, contact between the battery and skin will not cause any harms. Contact with a damaged battery may cause skin allergies or chemical burns.

### Inhalation

A battery volatilizes no gas unless it was damaged. Damaged battery will volatilize little gas that may stimulate the respiratory tract or cause an anaphylaxis in serious condition.

### Ingestion

Swallowing battery will be damaged to the respiratory tract and cause chemical burns to the stomach; in serious conditions it will cause permanent damage.

## 3. Composition/information on ingredients

Hazardous Ingredients (Chemical Name)	Concentration or concentration ranges (%)	CAS Number
Lithium oxido(oxo)nickel	16	12031-65-1
Lithium cobaltite	6.4	12190-79-3
Lithium manganate	9.6	12057-17-9
Graphite	17	7782-42-5
Lithium hexafluorophosphate	2	21324-40-3
Ethylene carbonate	4	96-49-1
Ethyl methyl carbonate	7	623-53-0
Propylene carbonate	1	108-32-7
Nickel	2	7440-02-0
Aluminum	12	7429-90-5
Copper	8	7440-50-8
Carbon	2	7440-44-0
1,1-Difluoroethylene polymer	4	24937-79-9
Polyethylene	3	9002-88-4
Poly(ethylene terephthalate)	6	25038-59-9



#### 4. First-aid measures

##### Eyes

If your eyes contact with a damaged battery, flush with copious amount of water for at least 15 minutes until the stinging and irritation subside, and seek immediate medical attention.

##### Skin

If your skin contact with a damaged battery, immediately take off contaminated clothing and flush your skin with copious amount of water or have a shower. Seek immediate medical attention if burning sensation continues.

##### Inhalation

Remove to fresh air immediately and have a rest. If you feel dyspnea, dizziness or headache, seek immediate medical attention.

##### Ingestion

If battery or open battery is ingested, do not induce vomiting or give food or drink. Seek medical attention immediately.

#### 5. Fire-fighting measures

This battery can get fire easily and made a lot of smoke under the forced bending and short-circuit condition, so it should be properly used and placed in a cool environment and avoid placing the battery package under heat, pressure and direct sunlight. In the event of fire, wear gas masks and cool the adjacent batteries and control the spread of fire with water or extinguishers, separate the fire batteries with other batteries as conditions permit, let the fire naturally extinguished, otherwise put out the fire with lots of water. In normal condition the fire is not extinguished until the reactions that between the chemicals contained in the battery are completed. In the event of a big fire, report the fire immediately and evacuate to a safe place.

#### 6. Accidental release measures

Clean the spills and batteries, place them in a dry sealed metal container or nonflammable material container, and bring them to battery recycling companies to deal with environmental protection. Do not throw away the damaged batteries or waste batteries.

#### 7. Handling and storage

##### Handling

Do not assemble and disassemble a battery, battery short-circuit is not allowed too. Keep the battery away from the fire. When transporting these batteries, the battery should be careful handling to avoid the battery being squeezed or excessive vibration.



### **Storage**

The battery should be fully charged before long term storage. The battery should be stored in a cool environment.

## **8. Exposure controls/Personal Protection**

### **Engineering control**

Choose the suitable ventilation equipment; provide sufficient quantity of fire extinguishers, gas mask and water, equip with metal storage containers and bathing equipment.

### **Respiratory protection**

Normally there is no need to do protection.

### **Eye protection**

Normally there is no need to do protection.

### **The body and skin protection**

Normally there is no need to do protection.

## **9. Physical and chemical properties**

### **Object appearance and shape**

Prismatic

### **Odour**

None

## **10. Stability and reactivity**

### **Stability**

Stable under the regular environment.

### **Should avoid conditions**

High temperature, wet environment, mechanical shock, vibration, crush, reverse polarity used should be avoided.

### **Incompatible materials**

None

### **Hazardous decomposition products**

When the battery catches fire, it will release pungent thick smoke.

## **11. Toxicological information**



In normal condition, contact with the battery is non-toxic.

**12. Ecological information**

Proper disposal of battery does not present ecological hazard.

**13. Disposal considerations**

It needs to be referred to the waste battery recycling companies for recycling disposal, cannot arbitrarily discarded in the environment. Specific conditions reference to the relevant national laws and regulations.

**14. Transport information**

This battery sample is Rechargeable Li-ion Battery and this battery type is proved to meet the requirements tests in the *UN Manual of Tests and Criteria*, Part III, subsection 38.3.

UN No.	Proper shipping name/Description (technical name)	Class of Div.(Sub Hazard)	Parking Instruction	Remark
UN3480	Lithium ion batteries	9	Section IA of PI965	Lithium-ion cells and batteries must be transported in a state of SoC not exceeding 30% of their rated capacity.
UN3481	Lithium ion batteries packed with equipment Lithium ion batteries contained in equipment	9	Section I of PI966 Section I of PI967	/

Can be transport by air according to the Packing Instructions 965, 966 and 967 of IATA Dangerous Goods Regulations relevant regulations (65<sup>th</sup>).

Can be transport be sea according to the special provision 188 of IMO *International Maritime Dangerous Goods Code* relevant regulations.

**15. Regulatory information**

《Dangerous Goods regulations》

《MO International Maritime Dangerous Goods Code relevant regulations》

Refer to U.N., national, local regulations.

**16. Other information**

The information above is believed to be accurate and represents the best information



currently available to us. However, concorde makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information

**\*\*\*\*\*End of report\*\*\*\*\***