

## Safety Data Sheet

### Product name

Version 1.0

Effective date: 2022-02-21

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME :** Lithium Ion Rechargeable Battery Pack

**CUSTOMER :** Arlo Technologies

**CUSTOMER P/N :** 308-50013-01

**CPT P/N :** 927600035

**MODEL NAME :** A-4a

**DESCRIPTION :** 1S3P / 4800mAh / 3.85V / 18.48Wh

**MANUFACTURER :** Celxpert Energy Co., Ltd

**ADDRESS :** No.128, Gong Wu Rd., Wu Lin Vil., Lung Tan, Taoyuan, Taiwan, 325, R.O.C.

**TELEPHONE :** +886-3-4899054

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### SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture according to CLP no. 1272/2008.

Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335.

2.2 Label elements CLP no. 1272/2008:

Hazard pictograms:



Signal word:

Warning

Hazard statements:

In case of contact with the internal materials in the battery (pack) due to the damage of the shell

H315 May causes skin irritation.  
H319 May causes serious eye irritation.  
H335 May cause respiratory irritation.  
Daily operation and use have no impact

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Precautionary statements:

Prevention:

P302 + P352 P210 Keep away from heat / sparks / open flames / hot surfaces - no smoking.

Response:

P302 + P352 Such as skin contamination: wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P311 In case of accidental exposure or doubt: call the poison center / doctor.

Storage:

P403 + P233 Store in a well-ventilated place.

## SECTION 3: INGREDIENT

Battery Cell

HAZARDOUS INGREDIENTS	%	CAS NUMBER	Classification CLP
Cobalt compound	4-50	1307-96-6	Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335.
Styrene-Butadiene-Rubber	<1	27288-99-9	
Aluminum Foil	2-10	7429-90-5	
Polyvinylidene Fluoride (PVDF)	<5	24937-79-9	
Copper Foil	2-10	7440-50-8	
Carbon	10-30	7440-44-0	Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335.
Electrolyte (Ethylene carbonate)	10-20	96-49-1	
Lithium hexafluorophosphate	<5	21324-40-3	

Stainless steel, Nickel and inert materials	Remainder	N/A	
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#### Circuit Module

HAZARDOUS INGREDIENTS	%	CAS NUMBER
Lead	0.001	7439-92-1
Mercury	0	7439-97-6
Chromium	0	7440-47-3
Cadmium	0	7440-43-9
Plastic case and Si2O	0	N/A

#### Metal Parts and Paints

HAZARDOUS INGREDIENTS	%	CAS NUMBER
Lead	<0.1	7439-92-1
Nickle	<0.01	7440-02-0
CFCs	0	75-69-4
Polychlorinated Biphenyls	0	1336-36-3

## SECTION 4: FIRST AID MEASURES

INHALATION, EYE CONTACT, and SKIN CONTACT : Not a health hazard.

#### INGESTION

If swallowed, obtain medical attention immediately.

If exposure to internal materials within cell(pack) due to damaged outer casing, the following actions are recommended.

#### INHALATION

Leave area immediately and seek medical attention.

#### EYE CONTACT

Rinse eyes with water for 15 minutes and seek medical attention.

#### SKIN CONTACT

Wash area thoroughly with soap and water and seek medical attention.

#### INGESTION

Drink milk/water and induce vomiting; seek medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 GENERAL HAZARD

Cell is not flammable but internal organic material will burn if the cell is incinerated.

Combustion products include, but are not limited to hydrogen fluoride, carbon monoxide and carbon dioxide.

### 5.2 EXTINGUISHING MEDIA

Use extinguishing media suitable for the materials that are burning.

### 5.3 SPECIAL FIREFIGHTING INSTRUCTIONS

If possible, remove cell(s) from fire fighting area. If heated above 125°C, cell(s) can explode/vent.

### 5.4 FIREFIGHTING EQUIPMENT

Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 ON LAND

Place material into suitable containers and call local fire/police department.

### 6.2 IN WATER

If possible, remove from water and call local fire/police department.

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

No special protective clothing required for handling individual cells.

### 7.2 STORAGE

Store in a cool, dry place.

## SECTION 8: EXPOSURE CONTROLS//PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Keep away from heat and open flame. Store in a cool dry place.

### 8.2 PERSONAL PROTECTION

Respirator: Not required during normal operations. SCBA required in the event of a fire.

Eye/face protection: Not required beyond safety practices of employer.

Gloves: Not required for handling of cells.

Foot protection: Steel toed shoes recommended for large container handling.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Solid	Boiling point : N/A
Odor : N/A	Solubility in water : Insoluble
PH : N/A	Specific gravity : N/A
Vapor pressure : N/A	Density : N/A
Vapor density : N/A	Flash Point : N/A

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY

None

### 10.2 INCOMPATIBILITIES

None during normal operation. Avoid exposure to heat, open flame, and corrosives.

### 10.3 HAZARDOUS DECOMPOSITION PRODUCTS

None during normal operating conditions. If cells are opened, hydrogen fluoride and carbon monoxide may be released.

### 10.4 CONDITIONS TO AVOID

Avoid exposure to heat and open flame. Do not puncture, crush or incinerate.

## SECTION 11: TOXICOLOGICAL INFORMATION

This product does not elicit toxicological properties during routine handling and use.

Sensitization: NO Teratogenicity: NO Reproductive toxicity:NO Acute toxicity: NO

This product does not contain any kinds of the following substances and halogen-type flame retardants including Chlorine and Bromide type harmful flame retardants which are listed in Appendix of TCO documents and relevant international ECO requirements:

Polybromated Biphenyls (PBB)  
Polybromated Diphenylethers (PBDE)  
Polychlorinated Biphenyls (PCBs)  
Polychlorinated Terphenyls(PCTs)  
Polychlorinated Paphthalene(PCN)  
Chlorinated Paraffins(C10-C13)  
Chlorofluorocarbons(CFCs)  
Polyvinyl Chloride(PVC)  
Carbon Tetrachloride

None of the following substances will be exposed, leaked, or emitted during transportation, storage or any operation and any temperature condition:

Chlorinated Fluorohydrocarbon (FCKW)  
Acrylonitrile  
Styrol  
Phenol  
Benzol  
Mercury of greater than 0.0001 wt% for alkaline battery  
Mercury of greater than 0.0005 wt% for other battery  
Lithium content of greater than 0.5g/battery cell  
Cadmium, lead, and other harmful heavy metal

And will comply with the regulation of 49 CFR (DOT regulation), International Air Transport Association (IATA), and Deuche Forschungsgemeinschaft (DFG) regarding concentrations of emitted substances.

This product does not contain mercury and cadmium.

Mercury content: N/A

Cadmium content: N/A

If the cells are opened through misuse or damage, discard immediately. Internal components of cell are irritants and sensitizers.

## SECTION 12: ECOLOGICAL INFORMATION

Some materials within the cell are bio-accumulative. Under normal conditions, these materials are contained and pose no risk to persons or the surrounding environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation.

## SECTION 14: TRANSPORT INFORMATION

- The International Civil Aviation Organization (ICAO) Technical Instructions(2022).
- The International Air Transport Association (IATA) Dangerous Goods Regulations (63nd Edition, 2022). Packing instruction 965 Section IA、 IB for Lithium Ion battery.
- The International Maritime Dangerous Goods (IMDG) Code , 2020 Edition ( Incorporating Amendment 40-20 ) with special provision 188 & 230.
- US Hazardous Materials Regulations 49 CFR(Code of Federal Regulations)Sections 173-177 Lithium batteries and cells.
- The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium batteries, ST-SG-AC10-11-Rev7(UN3480) .

## SECTION 15: REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**Sources:**

Pressure Equipment (Amendment) Regulations 2011. Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. Control of Substances Hazardous to Health Regulations 2002 (as amended).

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (as amended). Personal Protective Equipment Regulations 2002. Personal Protective Equipment at Work Regulations 1992. Hazardous Waste (England and Wales) Regulations 2005(as amended). EC regulation 1907/2006 (REACH) Directive 2000/532/EC. Seveso directive: 96/82/EC. EU 830/2015. CLP 1272/2008.

**Additional information: -**

**15.2 Chemical safety assessment:**

Chemical safety assessments have not been performed for this product.

## SECTION 16: OTHER INFORMATION

Package if damaged: do not load or transport.

Celxpert contact window: J.D. Chen

For more information,call: +886-3-4899054