

# Material Safety Data Sheet

Name of Product: Cylindrical Battery Capacitor UPC1550 3.6V 560As

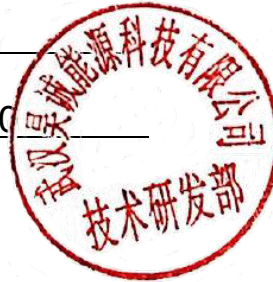
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# Material Safety Data Sheet

## 1. Product and Company Identification

Name of product	Cylindrical Battery Capacitor UPC1550 3.6V 560As
Type/Model	UPC1550 3.6V 560As 0.56Wh
Manufacturer	HCB BATTERY CO., LTD
Address	Special NO.1, Taizhong Avenue, Gaoqiao Industrial Park, Wujiashan Economic Development Zone, Wuhan Hubei China
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MSDS No.	HCB-WI-MSDS-04-004
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## 2. Composition Information

Ingredient	Concentration %	CAS No.	Remarks
Lithium Nickel-cobalt-manganese Dioxide	7~12	182442-95-1	—
Graphite	10~20	7782-42-5	
Lithium Hexafluorophosphate	2~3	21324-40-3	
Lithium tetrafluoroborate	2~3	14283-07-9	
Polypropylene	1~2	9003-07-0	
Polyethylene	1~2	9002-88-4	
Copper	5~6	7440-50-8	
Aluminium	5~6	7429-90-5	
Stainless Steel	50~55	Not specified	
Lithium	2~3	7439-93-2	
Ethylene carbonate	5~10	96-49-1	
Dimethyl carbonate	5~10	616-38-6	
Others	5~8	Not specified	—

## 3. Hazards Identification

**Hazard classification:** Class 9, miscellaneous.

**Exposure way:** Eye and skin contact, inhalation of the battery materials.

**Health hazard:** No specific toxicological study. Avoid direct contact with the battery materials. Avoid inhalation.

**Environmental hazard:** No known environmental hazard.

**Combustion hazard:** Do not heat over 60°C, do not deform, destroy, disassemble, overcharge, short-circuit which may cause explosion.

#### 4. First-aid measures

The product contains corrosive 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. Take a medical treatment. 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. Take a medical treatment.

#### 5. Fire fighting measures

**Extinguishing method:**

Since vapor, generated from burning batteries may make eyes, nose and throat irritate, be sure to extinguish the fire on the windward side. Wear the respiratory protection equipment in some cases.

**Fire extinguishing agent:**

Dry chemical, carbon dioxide and sand. Be sure not to use water and foam fire extinguisher.

#### 6. Accidental Release Measures

Measures for electrolyte leakage from the battery

- Take up with absorbent cloth.
- Move the battery away from the fire

#### 7. Handling and Storage

- When packing the batteries, do not allow battery terminals to contact each other, or contact with other metals. Be sure to pack batteries by providing partitions in the packaging box, or in a separate plastic bag so that the single batteries are not mixed together.
- Do not let water penetrate into packaging boxes during their storage and transportation.
- Storage Condition: Temperature  $\leq 30^{\circ}\text{C}$  Humidity  $\leq 75\%\text{RH}$ .

## 8. Physical and chemical properties

Appearance: Cylindrical shape

Nominal voltage: 3.6Volts

## 9. Stability and reactivity

Since batteries utilize a chemical reaction they are actually considered a chemical product.

As such, battery performance will deteriorate over time even if stored for a long period of time without being used. In addition, the various usage conditions such as discharge, ambient temperature, etc. are not maintained within the specified ranges. The life expectancy of the battery may be shortened or the device in which the battery is used may be damaged by electrolyte leakage.

## 10. Toxicological information

Acute toxicity: Not specified

Irritation: Irritating to eyes and skin

Mutagenicity: Not specified

Chronic toxicity: Not specified

## 11. Ecological information

—In case of the worn-out battery was disposed in land, the battery case may be corroded, and leak electrolyte. But, we have no ecological information.

Mercury(Hg) and Cadmium(Cd) are neither contained nor used in battery.

## 12. Disposal consideration

—When the battery is worn out, dispose of it under the ordinance of each local government the law issued by relating government.

—Disposal of the worn-out battery may be subjected to Collection and Recycling Regulation.

## 13. Transport information

**Hazards identification:** None.

**Suggestion according to IMO IMDG Code:**

The substance is not restricted to IMO IMDG Code according to special provision 188.

**Packaging requirements:**

The goods are packaged according to the packaging requirement of ordinary goods.

**Other:**

—When the goods by air,the package does not exceed 35kg gross mass. When the goods by sea,the package does not exceed 30kg gross mass.

**14. Regulation information**

—International Maritime Dangerous Goods Code .

**15. Further information**

- Do not place battery into fire
- Do not weld directly battery long time.
- Do not recharge battery.
- Do not force-discharge.
- Do not connect batteries in series or parallel by oneself.
- Do not reverse the positive and negative terminals
- Do not swallow.
- Do not discard.
- Stop immediately use it when serious heating or leakage.
- Before using the products, please read the manual Carefully or contact the Manufacturer.