



## **Safety Data Sheets**

**Name of Goods:** 800 AMP JUMP STARTER AND POWER SUPPLY

**Commissioner:** Shenzhen Carku Technology Co.,Ltd

**Dongguan UTL Electronic Technology Co., Ltd.**

## Safety Data Sheet (SDSs)

<b>Name of goods</b>	800 AMP JUMP STARTER AND POWER SUPPLY	
<b>Type/Mode</b>	P800AJS	
<b>Ratings</b>	18000mAh, 66.6Wh	
<b>Commissioned by</b>	Shenzhen Carku Technology Co., Ltd	
<b>Commissioner address</b>	2 Floor, Block A, Tongsheng Technology Building, Huahui Road, Dalang, Longhua New District, Shenzhen, China	
<b>Manufacturer</b>	Shenzhen Carku Technology Co., Ltd	
<b>Manufacturer address</b>	2 Floor, Block A, Tongsheng Technology Building, Huahui Road, Dalang, Longhua New District, Shenzhen, China	
<b>Factory</b>	Shenzhen Carku Technology Co., Ltd	
<b>Factory address</b>	2 Floor, Block A, Tongsheng Technology Building, Huahui Road, Dalang, Longhua New District, Shenzhen, China	
<b>Inspection according to</b>	OSHA GHS 《A Guide to The Globally Harmonized System of Classification and Labelling of Chemicals》 IATA DGR 《Dangerous Goods Regulations》 IMO IMDG CODE 《INTERNATIONAL MARITIME Dangerous Goods CODE》	
<b>Receiving date:</b> 2017-10-09	<b>Issue date:</b> 2017-10-12	

Approved by:



Reviewed by:

Tested by:

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

## Product Identifier

Product name: 800 AMP JUMP STARTER AND POWER SUPPLY

Model: P800AJS, 18000mAh 66.6Wh

## Other means of identification

Synonyms:

## Recommended use of the chemical and restrictions on use

Recommended Use:

Uses advised against:

- a) Do not dismantle, open or shred secondary cells or batteries.
- b) Do not expose cells or batteries to heat or fire. Avoid storage in direct sunlight.
- c) Do not short-circuit a cell or battery. Do not store cells or batteries haphazardly in a box or drawer. where they may short-circuit each other or be short-circuited by other metal objects.
- d) Do not remove a cell or battery from its original packaging until required for use.
- e) Do not subject cells or batteries to mechanical shock.
- f) In the event of a call leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected areas with copious amounts of water and seek medical advice.
- g) Do not use any charger other than that specifically provided for use with the equipment.
- h) Observe the plus(+) and minus(-) marks on the cell, battery and equipment and ensure correct use.
- i) Do not use any cell or battery which is not designed for use with the equipment.
- j) Do not mix cells of different manufacturer, capacity, size or type within a device.
- k) Battery usage by children should be supervised.
- l) Seek medical advice immediately if a cell or a battery has been swallowed.
- m) Always purchase the battery recommended by the device manufacturer for the equipment.
- n) Keep cells and batteries clean and dry.
- o) Wipe the cell or battery terminals with a clean dry cloth if they become dirty.
- p) Secondary cells and batteries need to be charged before use. Always use the correct charger and refer to the manufacturer's instructions or equipment manual for proper charging instructions.
- q) Do not leave a battery on prolonged charge when not in use.
- r) After extended periods of storage, it may be necessary to charge and discharge the cells or batteries several times to obtain maximum performance.
- s) Retain the original product literature for future reference.
- t) Use only the cell or battery in the application for which it was intended.
- u) When possible, remove the battery from the equipment when not in use.
- v) Dispose of properly.

## Details of the Manufacturer of the safety data sheet:

Name: Shenzhen Carku Technology Co., Ltd

Address: 2 Floor, Block A, Tongsheng Technology Building, Huahui Road, Dalang, Longhua New District, Shenzhen, China

Telephone number of the supplier: +86-755 89955266

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Dongguan UTL Electronic Technology Co., Ltd.

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**Emergency telephone number**

**Company Emergency Phone Number:** +86-755 89955266

## 2. HAZARDS IDENTIFICATION

### **Classification**

No harm at the normal use. If contact the Electrolyte in the Polymer Li-ion Battery, reference as follows:

### **Classification of the substance or mixture**

Classification according to GHS

Acute Toxicity, Oral (Hazard category 4)

Acute Toxicity, Dermal (Hazard category 3)

Skin, Irritate (Hazard Category 1B)

Eye Irritate (Hazard category 4)

### **CHS Label elements, including precautionary statements:**



GHS02



GHS05



GHS06

**Signal word: Warning**

### **Hazard statement(s):**

**H242:** Heating may cause a fire;

**H311:** Toxic in contact with skin;

**H314:** Causes severe skin burns and eye damage;

**H302:** Harmful if swallowed;

H319: Causes serious eye irritation

H351: Suspected of causing cancer

H317: May cause an allergic skin reaction

### **Precautionary statements:**

#### **Prevention:**

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing /eye protection/face protection.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

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**Response:**

P312: Call a Poison center or doctor/physician if you feel unwell.

P302+P350-IF ON SKIN: Gently wash with plenty of soap and water

P301+P330+P331-IF SWALLOWED: rise mouth. Do NOT induce vomiting

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

P337+P313 If eye irritation persists: Get medical advice/attention

P308+P313 If exposed or concerned: Get medical advice/attention

P302+P352 if ON SKIN: Wash with plenty of water

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P321 Specific treatment (see...on this label)

P362+P364 Take off contaminated clothing and wash it before reuse.

**Storage:**

**P405 Store locked up.**

**Disposal**

**P501:** Dispose of contents/container in accordance with local/national regulations

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other information**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterixation: Mixtures****Description:**

Product: Consisting of the following components

Common Chemical Name	Chemical Formula	Concentration (%)	CAS Number
Lithium Cobalt Dioxide	LiCoO <sub>2</sub>	25-35	12190-79-3
Graphite	C <sub>24</sub> X <sub>12</sub>	15-20	7782-42-5
Poly Vnylidene Fluoride	(C <sub>2</sub> H <sub>2</sub> F <sub>2</sub> ) <sub>n</sub>	1-5	24937-79-9
Acetylene Black	CH <sub>4</sub>	0.5-3	1333-86-4
Aluminium	Al	21-23	7429-90-5
Copper	Cu	10-11	7440-50-8
Electrolyte	N/A	10-15	623-53-0/21324-40-3

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

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## 4. FIRST-AID MEASURES

### First aid measures

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin Contact Remove contaminated clothing and shoes. Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Swallowing Do not induce vomiting. Get medical attention.

**Most Important Symptoms/Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

Notes to Physician Test symptomatically

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

CO2, dry chemical powder, water spray.

Unsuitable Extinguishing Media: No information available.

### Specific Hazards Arising from the Chemical

Formation of toxic gases is possible during heating or case of fire.

In case of fire, the following can be released:

Carbon monoxide (Co)

Carbon dioxide

Other irritating and toxic gases.

### Hazardous Combustion Products

Carbon oxides.

Explosion Date

Sensitivity to Mechanical Impact No

Sensitivity to Static Discharge No

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. For example: Wear self-contained respiratory protective device.

Wear suitable protective clothing and eye/face protection.

### Special hazards arising from the substance or mixture:

Battery may burst and release hazardous decomposition products when exposed to a fire situation.

Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature (>150°C), When damaged or abused (e.g. mechanical damage or electrical overcharging ); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

Personal Precautions Avoid contact with eyes.

Refer to section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

### **Environmental Precautions**

Environmental Precautions Refer to protective measures listed in Sections 7 and 8.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

### **Methods and material for containment and cleaning up**

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning up Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other Non combustible absorbent material. Pick up and transfer to properly labelled containers.

Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### **Precautions for safe handling**

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Wash thoroughly after handling. Use this material with adequate ventilation.

The Product is not explosive.

### **Conditions for safe storage, including any incompatibilities**

If the Lithium-ion Battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the Lithium-ion Polymer Battery Periodically.

3 months: -10°C~ +40°C, 45 to 85% RH

And recommended at 0°C~+35°C for long period storage.

The capacity recovery rate in the delivery state (50% capacity of fully charged) after storage is assumed to be 80% or more.

The voltage for a long time storage shall be 11.1V~12.9V range.

Do not storage Lithium-ion Battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.

Keep out of reach of children.

Do not expose Lithium-ion Polymer Battery to heat or fire. Avoid storage in direct sunlight.

Do not store together with oxidizing and acidic materials.

Keep ignition sources away- Do not smoke.

Store in cool, dry and well-ventilated place.

**Incompatible Products** None known.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### **Control parameters**

Ingredients with limit values that require monitoring at the workplace:	
12190-79-3 Lithium Cobalt Oxide	

TLV(USA)	0.02mg/m <sup>3</sup>
MAK(Germany)	0.1mg/m <sup>3</sup>

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### **Appropriate engineering controls**

#### **Engineering Measures** Showers

Eyewash stations

Ventilation systems

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible Exposure limits. Ensure or adequate ventilation.

### **Individual protection measures, such as personal protective equipment**

#### **Eye/Face Protection:**



**Tightly sealed goggles**

#### **Body protection:**

Protective work clothing.

#### **Skin protection:**



**Protective gloves**

#### **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is preparation of several substances, the resistance of the glove material can not to be calculated in advance and has therefore to be checked prior to the application.

#### **Penetration time of glove material:**

The exact break through time has to be found out by manufacturer of the Protective gloves and has to be observed.



**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good Industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physician State	Form:	
	Color:	
	Odour:	
	Odor Threshold:	
Change in condition:		
pH, with indication of the concentration		Not determined.
Melting Point/freezing point		Not determined.
Initial boiling point and Boiling range:		Not determined.
Flash Point		Not determined.
Evaporation rate		Not determined.
Flammability (solid, gas)		Not determined.
Upper/lower flammability or explosive limits		Not determined.
Vapor Pressure:		Not determined.
Vapor Density:		Not determined.
relative density:		Not determined.
Solubility in Water:		Not determined.
Solubility in other solvents		Not determined.
n-octanol/water partition coefficient		Not determined.
Auto-ignition temperature		Product is not self-igniting.
Decomposition temperature		Not determined.
Odour threshold		Not determined.
Evaporation rate		Not determined.
Viscosity		Not determined.
Other Information		No further relevant information available.

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under recommended storage and handling conditions (see section 7, Handling and storage)

**Chemical stability:** Stable Under normal conditions of use, storage and transport.

**Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of Hazardous Reactions:** None under normal processing.

**Hazardous Polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid:** Strong heating, fire, Incompatible materials.

**Incompatible materials:** Strong oxidizing agents. Strong acids. Base metals.

**Hazardous Decomposition Products:** Carbon oxides, Other irritating and toxic gases.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxiciy:** No data available.

LD/LC50 values relevant for classification:
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Not available.
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**Skin corrosion/irritation:** No irritant effect.

**Serious eye damage/irritation:** Cause serious eye irritation.

**Respiratory or skin sensitization:** No sensitizing effects known.

**Specific target organ system toxicity:** No information available.

**CMR effects (carcinogenity, mutagenicity and toxicity for reproduction:** No information available.

## 12. Ecological information

### **Toxicity:**

Acquatic toxicity:
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No further relevant information available.
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**Persistence and degradability:** No further relevant information available.

**Bioaccumulation potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

**Other adverse effects:** No information available.

## 13. DISPOSAL CONSIDERATIONS

### **Waste treatment methods**

Recommendation: Must not be disposed together with household garbage.

Do not allow product to reach sewage system

### **Uncleaned packaging:**

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Recommendation: Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

### Land transport

ADR/RID class: Not regulated.

UN-Number: UN3480

### Maritime transport

IMDG Class: Not regulated.

UN Number: UN3480

Marine pollutant: No

### Air transport

ICAO/IATA Class: Not regulated.

UN/ID Number: UN3480

Environmental hazards: Not applicable.

Special precautions for user: Not applicable.

Transport/Additional information: Not restricted goods according to the above specifications.

The Lithium-ion Battery had been tested according to the requirements of the UN manual of tests and Criteria, Part III, subsection 38.3;

The Lithium ion batteries according to PACKING INSTRUCTION Section IB of Packing Instructions 965 of 58th DGR Manual of IATA (2017 edition), including the passing of the UN38.3 test. And also complies with the Special Provision 188 of IMDG CODE (Amdt.37-14) 2014 Edition.

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking.

The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

Meets requirements of DOT Special Provision 188 to be transported as non-dangerous goods

Meets the requirements of 49CFR173.185 to be transported as non-dangerous goods for road, rail, air, and vessel (Effective August 6, 2014 per HM224F)

The package must be handled with care and that a flammability hazard exists if the package is damaged;

## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation:

**Authorisations:** No information available.

**Restrictions on use:** No information available.

### **Regulatory information**

CAS NO.	EU (EINECS)	US (TSCA)	Japan (ENCS)	Canada (DSL/ NDSL)	Australia (AICS)	Korea (ECL)	China (IECSC)
12190-79-3	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed
7429-90-5	Listed	Listed	Listed	DSL	Listed	Listed	Listed
24937-79-9	Listed	Listed	Listed	DSL	Listed	Listed	Listed
7782-42-5	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
7440-50-8	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
9003-55-8	Listed	Listed	Listed	DSL	Listed	Listed	Listed
21324-40-3	Listed	Not listed	Not listed	Not listed	Not listed	Not listed	Listed
96-49-1	Listed	Listed	Not listed	NDSL	Not listed	Not listed	Not listed
616-38-6	Listed	Listed	Listed	DSL	Listed	Listed	Listed
623-53-0	Listed	Listed	Listed	DSL	Listed	Listed	Listed
7440-02-0	Listed	Listed	Listed	DSL	Listed	Listed	Listed

**Chemical safety assessment** A Chemical Safety Assessment has not been carried out

## 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant Phrases:

R20/22: Harmful by inhalation and if swallowed.

R36: Irritating to eyes.

H302: Harmful if swallowed.

H332: Harmful if inhaled.

## Photos



Figure 1 Overall view I of 800 AMP JUMP STARTER AND POWER SUPPLY



Figure 2 Overall view II of 800 AMP JUMP STARTER AND POWER SUPPLY