

# Safety data sheet

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 PRODUCT IDENTIFIER

Product name	Lithium Battery
Product identifiers:	HKPBATL100BS
Identification on the label/Trade name:	100Ah LiFePO4 Battery
Product Synonyms:	100Ah Black Series Deep Cycle Lithium Battery, 12.8V 100Ah Deep Cycle LiFePO4 Battery

### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

1.2.1 Relevant identified uses:	As a deep-cycle lithium battery
1.2.2. Uses advised against:	No information available

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier name:	CBQ Auto and Leisure (Aust) Pty Ltd - Hardkorr
Address:	Building 9, 83 Burnside Road 4207 Stapylton, QLD, Australia
Supplier Phone Number:	AU +61738018332,
E-mail address of the competent person responsible for the Safety Data Sheet:	info@hardkorr.com
Supplier Website:	www.hardkorr.com

### Manufacturer

Supplier name:	Hardkorr New Zealand Ltd - Phone Number: 0800 454 769, email: info@hardkorr.com
Address:	C/- Price Horgan Accountants Limited, 330 Broadway Avenue 4414 Palmerston North, New Zealand

### 1.4 EMERGENCY TELEPHONE NUMBER

EMERGENCY CONTACT	Poisons Information Centre
Emergency telephone:	AU +61738018332 - NZ National Poison Centre 0800 764 766

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to the WHS Regulations and the ADG Code.

H301 Acute Tox. 3	Toxic if swallowed
H311 Acute Tox. 3	Toxic in contact with skin
H314 Skin Corr. 1B	Causes severe skin burns and eye damage.
H317 Skin Sens. 1	May cause an allergic skin reaction
H318 Eye Dam. 1	Causes serious eye damage.

H351 Carc. 2

Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

H372 STOT RE 1

Causes damage to organs ( state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

## 2.2 LABEL ELEMENTS

Signal word: Danger

Hazard pictograms



Hazard statements

H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction
H318	Causes serious eye damage.
H351	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H372	Causes damage to organs ( state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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+P313	IF exposed or concerned: Get medical advice/ attention.
P310	Immediately call a POISON CENTER/doctor.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national Regulations.

#### Additional information

This product is an article which contains a chemical substance. Safety information is given for exposure to the article as sold. Intend use of the product should not result in exposure to the chemical substance. This is a battery. In case of rupture: the above hazards exist.

#### 2.3 OTHER HAZARDS

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. MIXTURES

Component name	CAS no.	EC no.	REACH no.	Concentration	Classifications	SCL, M-factor, ATE
Aluminium foil	7429-90-5			10-30		
Nickel	7440-02-0			< 10		
Lithium iron phosphate	15365-14-7			30-60		
Graphite	7782-42-5			10-30		
Lithium hexafluorophosphate	21324-40-3			< 10		
Copper foil	7440-50-8			10-30		

### SECTION 4: FIRST AID MEASURES

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#### 4.1 DESCRIPTION OF FIRST AID MEASURES

##### 4.1 Description of first aid measures

First aid is upon rupture of sealed battery

##### First-aid measures after inhalation

If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical attention if symptoms persist or develop.

##### First-aid measures after skin contact

Immediately wash affected skin thoroughly with plenty of water for at least 15-20 minutes. Remove contaminated clothing and shoes promptly, ensuring no further contact with the substance.

##### First-aid measures after eye contact

Immediately rinse eyes thoroughly with plenty of water for at least 15-20 minutes, occasionally lifting the upper and lower eyelids. Continue rinsing.

##### First-aid measures after ingestion

Rinse mouth immediately. Do not induce vomiting. Give water or milk to drink if conscious after ingesting this substance. Seek immediate medical advice.

##### Protection of first-aiders

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8)

#### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Itching. Coughing and or wheezing. Burning sensation.

#### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically. If you feel unwell or symptoms persist, get medical advice/attention. Show this Safety Data Sheet to the physician.

Immediate medical attention may be required depending on exposure. Treatment should be directed at the clinical condition of the patient, bring this SDS to the healthcare provider.

##### General advice

For additional information and emergency please contact Australian Poisons Information Centre (13 11 26).

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 EXTINGUISHING MEDIA

##### Suitable extinguishing agents

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### Unsuitable extinguishing

CAUTION: Use of water spray when fighting fire may be inefficient.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours. Product is or contains a sensitiser. May cause sensitisation by skin contact.

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#### Explosion Data (Sensitivity to Mechanical Impact)

Sensitivity to Mechanical Impact: No. Sensitivity to Static Discharge: No

#### 5.3 ADVICE FOR FIREFIGHTERS

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

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Evacuate personnel to safe areas. Do not breathe dust, fume, gas, mist, vapours, or spray. Wear appropriate personal protective equipment, including respiratory protection, chemical-resistant gloves, and eye/face protection. Do not breathe dust, fume, gas, mist, vapours, or spray. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Refer to protective measures listed in Sections 7 and 8.

#### 6.2 ENVIRONMENTAL PRECAUTIONS

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

#### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Immediately contain any release to prevent environmental contamination and minimise exposure, If safe to do so. Use non-sparking tools and appropriate personal protective equipment, including respiratory protection, to handle the spilled material safely.

##### Small spill

Prevent further leakage or spillage if safe to do so. Contain the spilled material with inert, non-combustible absorbent to prevent spread to drains or waterways. Pick up and transfer to properly labeled containers.

##### Large Spills

Immediately evacuate personnel from the spill area. Isolate the hazard area and deny entry to unauthorized persons. Call emergency services and provide detailed information about the incident.

#### 6.4 REFERENCE TO OTHER SECTIONS

None

### SECTION 7: HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

##### Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

##### Storage area

Storage area should be a cool, dry, well ventilated. Do not store with incompatible substances and foodstuffs. Ensuring containers are adequately labelled and sealed, protected from physical damage when not in use. Use appropriate containment to avoid environmental contamination. Store locked up. Keep out of the reach of children.

## Incompatible products

Acids. Bases. Oxidising agents.

## 7.3 SPECIFIC END USE(S)

None

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

Type	Description	Duration	Limit value	Source	Comment
TWA	Graphite		3 mg/m3	Australia	
TWA	Copper dusts and mists (as Cu)		1 mg/m3	Australia	
TWA	Copper (fume)		0.2 mg/m3	Australia	
TWA	Aluminium (metal dust)		10 mg/m3	Australia	
TWA	Nickel, metal		1 mg/m3	Australia	
TWA	Lithium iron phosphate		0.02 mg/m3		source: ACGIH TLV
TWA	Phosphate(1-), hexafluoro-,lithium		2.5 mg/m3 F		source: ACGIH TLV

### 8.2 EXPOSURE CONTROLS

#### Inhalation

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

#### Eye protection

None required for consumer use. If there is a hazard of contact: Tight sealing safety goggles. Face protection shield.

#### Skin and Body Protection

Non required for consumer use. If there is a hazard of contact: Wear protective gloves and protecting clothing.

#### Appropriate engineering controls

Ventilation system. Showers and Eyewash stations.

#### Other information

Hygiene Measures: Keep away from food, drink. When using do not eat, drink or smoke. Wash hands before eating, drinking or smoking.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Odour:	Odorless
Appearance:	Black Cuboid
Odour threshold:	No data available

### 9.2. OTHER INFORMATION

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No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. REACTIVITY

No data available

### 10.2. CHEMICAL STABILITY

Stable under recommended storage conditions.

### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

None under normal processing.

### 10.4. CONDITIONS TO AVOID

None known based on information supplied.

### 10.5. INCOMPATIBLE MATERIALS

Acids, Bases, Oxidising agents.

### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Decomposition may release toxic, corrosive, and irritating fumes, including Carbone oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION

#### Acute toxicity and immediate effects

Product does not present an acute toxicity hazard based on known or supplied information. In case of rupture:

#### Skin contact

Specific test data for the substance or mixture is not available. Corrosive (based on components). Causes burns. May be absorbed through the skin in harmful amount. Harmful in contact with skin.

#### Respiratory sensitization

Specific test data for the substance or mixture is not available. May cause sensitisation of susceptible persons based on components.

#### Mutagenicity

No information available

#### Specific target organ toxicity (single exposure)

No information available

#### Specific target organ toxicity (repeated exposure)

Causes damage to organs through prolonged or repeated exposure.

#### Serious eye damage/irritation

Specific test data for the substance or mixture is not available. May cause eye damage based on components.

#### Carcinogenicity

Specific test data for the substance or mixture is not available. Suspected of causing cancer based on components.

#### Reproductive toxicity

No information available

#### Teratogenicity

No data available

#### Information on likely routes of exposure

No data available

#### Potential delayed effects

No data available

#### Potential immediate effects

Erythema (skin redness). May cause redness and tearing of the eyes. Itching. Rashes. Hives.

#### Potential chronic health effects

Contains a known or suspected carcinogen. Prolonged exposure may cause chronic effects. May cause adverse liver effects.

### 11.2. INFORMATION ON OTHER HAZARDS

#### 11.2.1. Endocrine disrupting properties

No data available

#### 11.2.2. Other information

Inhalation and Ingestion: Specific test data for the substance or mixture is not available. Based on components it may cause irritation of respiratory tract. Ingestion may cause irritation to mucous membranes, gastrointestinal irritation, nausea, vomiting and diarrhea.

Aspiration hazards: No information available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. TOXICITY

Specific test data for the mixture is not available. Expected to be very toxic to aquatic life with long lasting effects based on components.

#### Ecotoxicity

Specific test data for the mixture is not available. Expected to be very toxic with long lasting effects based on components.

#### Aquatic toxicity

Specific test data for the mixture is not available. Expected to be very toxic to aquatic life with long lasting effects based on components.

#### Toxicity to algae

Specific test data for the mixture is not available. Expected to be very toxic to algae with long lasting effects based on components.

#### Fish toxicity

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Specific test data for the mixture is not available. Expected to be very toxic to fish with long lasting effects based on components.

Toxicity to microorganisms

no data available

Toxicity to bacteria

no data available

12.2. PERSISTENCE AND DEGRADABILITY

Biodegradation

no data available

12.3. BIOACCUMULATIVE POTENTIAL

no data available

12.4. MOBILITY IN SOIL

12.4. Mobility in soil

no data available

Koc

No data available

· Additional ecological information

No data available

· General notes

No data available

12.5. RESULTS OF PBT AND VPVB ASSESSMENT

PBT

No data available

VPVB

No data available

12.6 ENDOCRINE DISRUPTING PROPERTIES

Persistent Organic Pollutant

No data available

Ozone Depletion Potential

No data available

12.7 OTHER ADVERSE EFFECTS

## SECTION 13: DISPOSAL CONSIDERATIONS

Appropriate disposal/Product

Disposal of this product should at all times comply with the requirements of environmental protection legislation, waste disposal legislation, and any applicable regional or local authority requirements.

#### Packaging

No data available

#### 13.1. Waste treatment methods

No data available

#### Sewage disposal

No data available

#### Additional information

No data available

### SECTION 14: TRANSPORT INFORMATION

	IMDG	IATA	ADR	RID	ADN
14.1. UN number	3480	3480	3480		
14.2. UN proper shipping name	Lithium ion batteries	Lithium ion batteries	Lithium ion batteries		
14.3. Transport hazard class(es)	9	9	9		
14.4. Packing group	II	II	II		
14.5. Environmental hazards	yes	yes	yes		

#### 14.6. Special precautions for user

EmS No F-A S-I

### SECTION 15: REGULATORY INFORMATION

This SDS is prepared in accord with the Safe Work Australia documents:

- Code of Practise - Preparation of Safety Data Sheets for Hazardous Chemicals
- Classification hazardous chemicals – National Guide

This SDS is updated to the 7th Revised Edition of the GHS.

This Safety Data Sheet is being prepared with reference to the additional information required when adapting an overseas SDS for use in New Zealand, in accordance with the Consolidated Hazardous Substances (Safety Data Sheets) Notice 2017.

This material/constituent(s) is covered by the following requirements:

Except for lithium iron phosphate, all constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt from listing.

Except for lithium iron phosphate and Lithium hexafluorophosphate, all constituents of this material are listed on the New Zealand Inventory of Chemicals (NZIoC).

Poison schedule (Aust): not applicable

Batteries are not covered by the HSNO Act. NZ

#### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

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

No data available

##### EU regulatory information

No data available

##### Other EU regulations

No data available

##### International regulations

No data available

#### OTHER REGULATIONS

No data available

##### National regulations

No data available

##### U.S. Federal Regulations

No data available

#### CANADIAN REGULATIONS

No data available

##### National regulations - Great Britain

No data available

#### 15.2. CHEMICAL SAFETY ASSESSMENT

No data available

#### 15.3. ADDITIONAL INFORMATION

No data available

### SECTION 16: OTHER INFORMATION

GHS classification is based on safety and environmental data available on the Hazardous Chemical Information System (HCIS) – SWA and on the SDSs provided by the suppliers.

Date of issue: 20/01/2026

Revision number: 1.1

## ACRONYMS

AICIS Australian Industrial Chemicals Introduction Schemes  
SDS Safety Data Sheet  
STEL Short Term Exposure Limit  
SUSMP Standard for the Uniform Scheduling of Medicine & Poisons (AUSTRALIA)  
TGA Therapeutic Goods Administration (AUSTRALIA)  
TLV Threshold Limit Value  
TWA Time Weighted Average  
ADG Australian Dangerous Goods  
AICS Australian Inventory of Chemical Substances  
GHS The Globally Harmonized System of Classification and Labelling of Chemicals  
IATA The International Air Transport Association  
ICAO The International Civil Aviation Organisation  
IMDG International Maritime Dangerous Goods

This Safety Data Sheet summarises the best of our current knowledge and experience about the safety requirements of the product. Whilst the information contained herein is believed to be accurate, neither the above mentioned supplier nor any of its subsidiaries assumes any liability for the completeness, reliability and accuracy of the information provided in this document.

The information given is provided as a guidance and is not to be considered a warranty of quality specification. It is responsibility of the users to make their own evaluation of the suitability of any materials in relation to their specific circumstances.