

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:	HKPBATL150BS
Identification on the label/Trade name:	150Ah Black Series Deep Cycle Lithium Battery
Product Synonyms:	150Ah Black Series Deep Cycle Lithium Battery, 12.8V 150Ah 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 (Australia):	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:	info@hardkorr.com
Supplier Website:	www.hardkorr.com
Supplier (New Zealand):	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	
Emergency telephone:	AU Hardkorr +61738018332 - NZ National Poison Centre 0800 764 766

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Acute toxicity - Dermal - Category 4
Acute toxicity - Inhalation - Category 2
Skin corrosion/irritation - Category 1A
Skin sensitisation - Category 1
Carcinogenicity - Category 1A
Reproductive toxicity - Category 1B
Specific target organ toxicity - repeated exposure - Category 1
Hazardous to the aquatic environment - Acute - Category 1
Hazardous to the aquatic environment - Long-term - Category 2

2.2 LABEL ELEMENTS

SIGNAL WORD

Danger

HAZARD PICTOGRAM(S)

Skull and crossbones, Health hazard, Exclamation mark, Environment



HAZARD STATEMENT(S)

H312 Harmful in contact with skin
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H330 Fatal if inhaled
H350 May cause cancer
H360 May damage fertility or the unborn child
H372 Causes damage to organs through prolonged or repeated exposure
H400 Very toxic to aquatic life
H411 Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT(S)

General

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.

Prevention

P202 Do not handle until all safety precautions have been read and understood
P260 Do not breathe fume/mist/vapours/spray.
P263 Avoid contact during pregnancy and while nursing.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection.
P284 Wear respiratory protection.

Response

P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (on hair): Take off immediately all contaminated clothing. Rinse skin with water.
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.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P310 Immediately call a POISON CENTRE/doctor.
P314 Get medical advice/attention if you feel unwell.
P363 Wash contaminated clothing before reuse
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P391 Collect spillage.

Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

Additional information

This product is an article which contains a chemical substance. Safety information is given for exposure to the

article as sold. Intended 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.	Concentration %
Aluminium foil	7429-90-5	15.5
Nickel	7440-02-0	3.3
Lithium iron phosphate	15365-14-7	42.3
Graphite	7782-42-5	19.5
Lithium hexafluorophosphate	21324-40-3	7.2
Copper foil	7440-50-8	12.2

SECTION 4: FIRST AID MEASURES

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.

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. Seek immediate medical advice.

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. Seek immediate medical advice.

First-aid measures after ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

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 or in an emergency please use the emergency contact details in Section 1

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.

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 fume, mist, vapours, or spray. Wear appropriate personal protective equipment, including respiratory protection, chemical-resistant gloves, and eye/face protection. Do not breathe fume, 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 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	Limit value	Source	Comment
TWA	Graphite	3 mg/m3	Australia	A (see Chapter 14)
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	Carc. 1A; Sen.
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. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Eye protection

If there is a hazard of contact: Tight sealing safety goggles. Face protection shield.

Skin and Body Protection

If there is a hazard of contact: Wear protective gloves and protective 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:	sealed solid article/battery
Odour:	Odorless
Appearance:	Black rectangular battery enclosure
Odour threshold:	No data available

9.2. OTHER INFORMATION

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 Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION

Acute toxicity: Harmful in contact with skin. Fatal if inhaled.

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 3,211 mg/kg

Dermal LD50 1,927 mg/kg

Inhalative LC50/4 h 0.123 mg/L

21324-40-3 Lithium hexafluorophosphate(1 -)

Oral LD50 500mg/kg (ATE)

Dermal LD50 300 mg/kg (ATE)

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 and sensitization

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

Mutagenicity Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) Based on available data, the classification criteria are not met.

STOT-repeated exposure

Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

Serious eye damage/irritation

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

Carcinogenicity

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

Route of exposure: Inhalation

Reproductive toxicity

May damage fertility or the unborn child.

Aspiration hazard Based on available data, the classification criteria are not met.

Information on likely routes of exposure

No data available

Potential delayed effects

No data available

Potential chronic health effects

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

11.2. INFORMATION ON OTHER HAZARDS

11.2.1. Endocrine disrupting properties No data available

11.2.2. Other information
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.

Ecotoxicity

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

Aquatic toxicity

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

Toxicity to algae

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

Fish toxicity

Specific test data for the mixture is not available. Expected to be very toxic to fish 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

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 no data available

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

Additional information
No data available

SECTION 14: TRANSPORT INFORMATION

	IMDG	IATA	ADR
14.1. UN number	3480/3481	3480/3481	3480/3481
14.2. UN proper shipping name	Lithium ion batteries/Lithium ion batteries packed with equipment	Lithium ion batteries/Lithium ion batteries packed with equipment	Lithium ion batteries/Lithium ion batteries packed with equipment
14.3. Transport hazard class(es)	9	9	9
14.4. Packing group	-	-	-
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 Practice - 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.

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.

Poison schedule (Aust): not applicable

This product is a manufactured article (sealed battery). Batteries are exempt from HSNO approval requirements (EPA New Zealand).

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

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.

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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 the responsibility of the users to make their own evaluation of the suitability of any materials in relation to their specific circumstances.