



**DESIGN REPORT OF SAFETY DATA SHEET**

No.: 220100320416493E

Date: Jun.26,2022

<b>Name of the sample</b>	DC Power supply system (It is composed of rechargeable lithium electronic battery module V047-0001AA 9P28S 101.36V 3.15kWh) BX6.3_DD		
<b>Applicant</b>	DELTA ELECTRONICS (JIANGSU) LIMITED		
<b>Supplier</b>	DELTA ELECTRONICS (JIANGSU) LIMITED		
<b>Composition of the sample</b>	Lithium nickel oxide: 10~20%; Carbon: 10~20%; Iron: 10~20%; Copper: 5~15%; Lithium nickel dioxide: 1~10%; Aluminium: 1~10%; Cobalt lithium dioxide: 1~10%; Dimethyl carbonate: 1~10%; Lithium manganate(III,IV)oxide: 1~10%; Polyethylene: 1~10%; Ethylene carbonate: 1~3%; Lithium hexafluorophosphate(1-): 1~3%; Graphite: 1~3%; Ethyl methyl carbonate: 1~3%; Nickel: 0.1~0.99%; 1,4-Benzenedicarboxylic acid, 1,4-dimethyl ester, polymer with 1,4-cyclohexanedimethanol and 1,2-ethanediol: 0.1~0.99%; 1-Propene, homopolymer: 0.1~0.99%; Poly[N,N'-(1,4-phenylene)-3,3',4,4'-benzophenonetetracarboxylic imide/amic acid]: 0.1~0.99%; Lithium carbonate: 0.1~0.99%; Carbon black: 0.1~0.99%; Benzene, ethenyl-, polymer with 1,3-butadiene: 0.1~0.99%; Acetic acid ethenyl ester, polymer with carbon monoxide and ethene: 0.1~0.99%; Carboxymethylcellulose Sodium: 0.1~0.99%; Succinonitrile: 0.1~0.99%; Aluminum lithium oxide (AlLiO): 0.1~0.99%		
<b>Warranty of Design</b>	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Ninth revised edition		
Design Result of SDS please see next page.			
<b>Designer</b>	孙越越	<b>Approver</b>	For and on behalf of <b>CCIC JIANGSU CO., LTD.</b> 中国检验认证集团江苏有限公司 王珍



Notes: This SDS is valid before the implementation of the Tenth revised edition GHS. 1



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Warranty of Design: GHS (Ninth Revised Edition)

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## Section 1 Product and Company Identification

### > Product Identifier

<b>Product Name</b>	DC Power supply system (It is composed of rechargeable lithium electronic battery module V047-0001AA 9P28S 101.36V 3.15kWh) BX6.3_DD
<b>Synonyms</b>	-
<b>CAS No.</b>	Not applicable
<b>EC No.</b>	Not applicable
<b>Molecular Formula</b>	Not applicable

### > Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

<b>Relevant Identified Uses</b>	Please consult manufacturer.
<b>Uses Advised Against</b>	Please consult manufacturer.

### > Details of the Supplier of the Safety Data Sheet

<b>Applicant Name</b>	DELTA ELECTRONICS (JIANGSU) LIMITED
<b>Application Address</b>	NO.1688 JIANGXING EAST ROAD WUJIANG ECONOMIC DEVELOPMENT ZONE, WUJIANG, JIANGSU
<b>Applicant Post Code</b>	215200
<b>Applicant Telephone</b>	+86-512-63401008#5649
<b>Applicant Fax</b>	+86-512-63401564
<b>Applicant E-mail</b>	szo-op29@airseagroup.com.cn
<b>Supplier Name</b>	DELTA ELECTRONICS (JIANGSU) LIMITED
<b>Supplier Address</b>	NO.1688 JIANGXING EAST ROAD WUJIANG ECONOMIC DEVELOPMENT ZONE, WUJIANG, JIANGSU
<b>Supplier Post Code</b>	215200
<b>Supplier Telephone</b>	+86-512-63401008#5649
<b>Supplier Fax</b>	+86-512-63401564
<b>Supplier E-mail</b>	szo-op29@airseagroup.com.cn
<b>Importer Name</b>	Delta Electronics Australia Pty Ltd
<b>Importer Address</b>	18/39 Herbert Street, St Leonards NSW 2065, Australia
<b>Importer Telephone</b>	+61 300335823
<b>Importer Emergency Phone Number</b>	+61 0498192573

### > Emergency Phone Number

<b>Emergency Phone</b>	+86-512-63401008
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## Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the ninth revised edition):

### > GHS Hazard Class

This product meets the definition of an article. Under the Globally Harmonized System of Classification and Labeling of Chemicals (GHS), "Articles" as defined in the Hazard Communication Standard (29 CFR 1910.1200) of the Occupational Safety and Health Administration of the United States of America, or by similar definition, are outside the scope of the system. [Rev.9 (2021) Part 1.3.2.1.1]

### > GHS Label Elements

Pictogram

Not applicable

Signal Word

**Not applicable**

### > Hazard Statements

Not applicable

### > Precautionary Statements

Prevention

Do not open or disassemble.  
Do not expose to high temperatures or open fire.  
Do not mix with batteries of varying sizes, chemistries or types.  
Avoid using external impact battery.

Response

Not applicable

Storage

Store under roof in cool, dry, well-ventilated areas.

Disposal

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

## Section 3 Composition/Information on Ingredients



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Component	CAS No.	EC No.	Concentration (weight percent, %)
Litium nickel oxide	12325-84-7	-	10~20
Carbon	7440-44-0	231-153-3	10~20
Iron	7439-89-6	231-096-4	10~20
Copper	7440-50-8	231-159-6	5~15
Lithium nickel dioxide	12031-65-1	-	1~10
Aluminium	7429-90-5	231-072-3	1~10
Cobalt lithium dioxide	12190-79-3	235-362-0	1~10
Dimethyl carbonate	616-38-6	210-478-4	1~10
Lithium manganate(III,IV)oxide	12057-17-9	-	1~10
Polyethylene	9002-88-4	200-815-3	1~10
Ethylene carbonate	96-49-1	202-510-0	1~3
Lithium hexafluorophosphate(1-)	21324-40-3	244-334-7	1~3
Graphite	7782-42-5	231-955-3	1~3
Ethyl methyl carbonate	623-53-0	-	1~3
Nickel	7440-02-0	231-111-4	0.1~0.99
1,4-Benzenedicarboxylic acid, 1,4-dimethyl ester, polymer with	25640-14-6	-	0.1~0.99
1,4-cyclohexanedimethanol and 1,2-ethanediol			
1-Propene, homopolymer	9003-07-0	-	0.1~0.99
Poly[N,N'-(1,4-phenylene)-3,3',4,4'-benzophenonetetracarboxylic imide/amic acid]	26023-21-2	-	0.1~0.99
Lithium carbonate	554-13-2	209-062-5	0.1~0.99
Carbon black	1333-86-4	215-609-9	0.1~0.99
Benzene, ethenyl-, polymer with 1,3-butadiene	9003-55-8	-	0.1~0.99
Acetic acid ethenyl ester, polymer with carbon monoxide and ethene	26337-35-9	-	0.1~0.99
Carboxymethylcellulose Sodium	9004-32-4	900-432-4	0.1~0.99
Succinonitrile	110-61-2	203-783-9	0.1~0.99
Aluminum lithium oxide (AlLiO)	11089-89-7	-	0.1~0.99



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### Section 4 First Aid Measures

#### > Description of First Aid Measures

<b>General Advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Skin Contact</b>	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
<b>Protecting of First-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

#### > Most Important Symptoms and Effects, both Acute and Delayed

- 1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

#### > Indication of Any Immediate Medical Attention and Special Treatment Needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

### Section 5 Fire Fighting Measures

#### > Extinguishing Media

<b>Suitable Extinguishing Media</b>	Dry chemical, carbon dioxide or alcohol-resistant foam.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter or spread fire.

#### > Specific Hazards Arising from the Substance or Mixture

- 1 Containers may explode when heated.
- 2 Fire exposed containers may vent contents through pressure relief valves.
- 3 May expansion or decompose explosively when heated or involved in fire.

#### > Advice for Firefighters

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.



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- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

### Section 6 Accidental Release Measure

#### > Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

#### > Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

#### > Methods and Materials for Containment and Cleaning Up

- 1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

### Section 7 Handling and Storage

#### > Precautions for Handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.
- 5 Take precautionary measures against static discharges.

#### > Precautions for Storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

### Section 8 Exposure Controls/Personal Protection



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## > Control Parameters

### Occupational Exposure Limit Values

Component	Country/Region	Limit Value - Eight Hours		Limit Value - Short Term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Copper 7440-50-8	The Netherlands	-	0.1	-	-
	Poland	-	0.2	-	-
	Latvia	-	0.5	-	1
	Germany (DFG)	-	0.01	-	0.02
Aluminium 7429-90-5	USA - OSHA	-	15	-	-
	South Korea	-	10	-	-
	Ireland	-	1	-	-
	Germany (DFG)	-	4	-	-
	Denmark	-	5	-	10
Graphite 7782-42-5	Australia	-	10	-	-
	USA - OSHA	-	15	-	-
	South Korea	-	2	-	-
	Ireland	-	10	-	-
	Germany (DFG)	-	4	-	-
	Denmark	-	2.5	-	5
Nickel 7440-02-0	Australia	-	3 (4)	-	-
	USA - OSHA	-	1	-	-
	South Korea	-	1	-	-
	Ireland	-	0.5	-	-
	Hungary	-	0.1	-	0.1
	Denmark	-	0.05	-	0.1
Carbon black 1333-86-4	Australia	-	1	-	-
	USA - OSHA	-	3.5	-	-
	South Korea	-	3.5	-	-
	Ireland	-	3.5	-	7
	France	-	3.5	-	-
	Denmark	-	3.5	-	7
Succinonitrile 110-61-2	Australia	-	3	-	-
	USA - NIOSH	6	20	-	-

### Biological Limit Values



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Component	Source	Biological monitoring index	Biological limits value	Sampling time	Remark
Lithium hexafluorophosphate(1-)	SCOEL(EU)	Fluorine/urine	8mg/L	end of shift	

## Monitoring Methods

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

## > Engineering Controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

## > Personal Protection Equipment

<b>Eye Protection</b>	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
<b>Hand Protection</b>	Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.
<b>Respiratory protection</b>	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
<b>Skin and Body Protection</b>	Wear fire/flame resistant/retardant clothing and antistatic boots.

## Section 9 Physical and Chemical Properties

**Appearance:** Lithium-ion batteries, individually packaged, 315V 6.3kWh

**Odor Threshold:** No information available

**Melting Point/Freezing Point (°C):** No information available

**Flash Point (°C)( Closed Cup):** Not applicable

**Flammability:** No information available

**Vapor Pressure (KPa):** Not applicable

**Relative Density(Water=1):** No information available

**n-Octanol/Water Partition Coefficient:** No information available

**Decomposition Temperature (°C):** No information available

**Odor:** No information available

**pH:** No information available

**Initial Boiling Point and Boiling Range (°C):** No information available

**Evaporation Rate:** Not applicable

**Upper/lower explosive limits[% (v/v)]:** Upper limit: No information available; Lower limit: No information available

**Relative Vapour Density(Air=1):** Not applicable

**Solubility:** No information available

**Auto-Ignition Temperature(°C):** No information available

**Kinematic Viscosity (mm<sup>2</sup>/s):** Not applicable





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**Particle characteristics:** No information available

## Section 10 Stability and Reactivity

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical Stability</b>	Stable under proper operation and storage conditions.
<b>Possibility of Hazardous Reactions</b>	Mixtures with metallic acetylene, when heated, cause a fire or incandescence. Reacts severely with halogens, interhalogens or other strong oxidants, or causes a fire. Ultrafine powder will self-ignite in the air at room temperature.
<b>Conditions to Avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible Materials</b>	Metal acetylide, halogen, interhalogen, halogen oxides, nitric acid, nitrous oxide, nitrates, nitrites, halogen oxyacid salts, chromates, permanganates, inorganic peroxides, metal oxides and peroxyformic acid. Halogen, interhalogen, strong oxidant, water and acids. Oxidants, halogen, interhalogen and mercury.
<b>Hazardous Decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11 Toxicological Information

### > Acute Toxicity

Component	CAS No.	LD <sub>50</sub> (Oral)	LD <sub>50</sub> (Dermal)	LC <sub>50</sub> (Inhalation, 4h)
Succinonitrile	110-61-2	450mg/kg(Rat)	No information available	No information available
Lithium carbonate	554-13-2	525mg/kg(Rat)	No information available	No information available
Ethylene carbonate	96-49-1	10000mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available
Lithium hexafluorophosphate(1-)	21324-40-3	1702mg/kg(Rat)	275mg/kg(Rat)	No information available
Dimethyl carbonate	616-38-6	13000mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available
Carbon black	1333-86-4	> 15400mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available
Carboxymethylcellulose Sodium	9004-32-4	27000mg/kg(Rat)	> 2000mg/kg(Rabbit)	> 5.8mg/L(Rat)
Iron	7439-89-6	30000mg/kg(Rat)	No information available	No information available
Aluminium	7429-90-5	50-300mg/kg(Rat)	275mg/kg(Rat)	No information available



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Ethyl methyl carbonate	623-53-0	695mg/kg(Rat)	> 20000mg/kg(Rabbit)	47.702mg/L(Rat)
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## > Skin Corrosion/Irritation

No information available

## > Serious Eye Damage/Irritation

No information available

## > Skin Sensitization

No information available

## > Respiratory Sensitization

No information available

## > Germ Cell Mutagenicity

No information available

## > Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	12325-84-7	Lithium nickel oxide	Not Listed	Not Listed
2	7440-44-0	Carbon	Not Listed	Not Listed
3	7439-89-6	Iron	Not Listed	Not Listed
4	7440-50-8	Copper	Not Listed	Not Listed
5	12031-65-1	Lithium nickel dioxide	Not Listed	Not Listed
6	7429-90-5	Aluminium	Not Listed	Not Listed
7	12190-79-3	Cobalt lithium dioxide	Category 2B	Not Listed
8	616-38-6	Dimethyl carbonate	Not Listed	Not Listed
9	12057-17-9	Lithium manganate(III,IV)oxide	Not Listed	Not Listed
10	9002-88-4	Polyethylene	Category 3	Not Listed
11	96-49-1	Ethylene carbonate	Not Listed	Not Listed
12	21324-40-3	Lithium hexafluorophosphate(1-)	Not Listed	Not Listed
13	7782-42-5	Graphite	Not Listed	Not Listed
14	623-53-0	Ethyl methyl carbonate	Not Listed	Not Listed
15	7440-02-0	Nickel	Category 2B	Not Listed



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16	25640-14-6	1,4-Benzenedicarboxylic acid, 1,4-dimethyl ester, polymer with 1,4-cyclohexanedimethanol and 1,2-ethanediol	Not Listed	Not Listed
17	9003-07-0	1-Propene, homopolymer	Category 3	Not Listed
18	26023-21-2	Poly[N,N'-(1,4-phenylene)-3,3',4,4'-benzophenonetetracarboxylic imide/amic acid]	Not Listed	Not Listed
19	554-13-2	Lithium carbonate	Not Listed	Not Listed
20	1333-86-4	Carbon black	Category 2B	Not Listed
21	9003-55-8	Benzene, ethenyl-, polymer with 1,3-butadiene	Category 3	Not Listed
22	26337-35-9	Acetic acid ethenyl ester, polymer with carbon monoxide and ethene	Not Listed	Not Listed
23	9004-32-4	Carboxymethylcellulose Sodium	Not Listed	Not Listed
24	110-61-2	Succinonitrile	Not Listed	Not Listed
25	11089-89-7	Aluminum lithium oxide (ALiO)	Not Listed	Not Listed

## > Reproductive Toxicity

No information available

## > Reproductive Toxicity (Additional)

No information available

## > STOT-Single Exposure

No information available

## > STOT-Repeated Exposure

No information available

## > Aspiration Hazard



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No information available

## Section 12 Ecological Information

### > Acute Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae
Nickel	7440-02-0	LC <sub>50</sub> : 40mg/L (96h)(Fish)	EC <sub>50</sub> : 1mg/L (48h)	No information available
Copper	7440-50-8	LC <sub>50</sub> : 0.665mg/L (96h)(Fish)	EC <sub>50</sub> : 0.02mg/L (48h)	ErC <sub>50</sub> : 7.9mg/L (96h)
Carboxymethylcellulose Sodium	9004-32-4	No information available	EC <sub>50</sub> : 87.3mg/L (48h)	No information available
Iron	7439-89-6	LC <sub>50</sub> : 1.29mg/L (96h)(Fish)	No information available	No information available
Aluminium	7429-90-5	LC <sub>50</sub> : 1.55mg/L (96h)(Fish)	No information available	No information available

### > Chronic Aquatic Toxicity

No information available

### > Others

**Persistence and Degradability**  
**Bioaccumulative Potential**  
**Mobility in Soil**

No information available

No information available

No information available

**Results of PBT and vPvB Assessment**

Lithium nickel oxide does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Carbon does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Iron does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Copper does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Lithium nickel dioxide does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Aluminium does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Cobalt lithium dioxide does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Dimethyl carbonate does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Lithium manganate(III,IV)oxide does not meet the criteria for PBT and vPvB according



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to Regulation (EC) No 1907/2006, annex XIII.  
Polyethylene does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
Ethylene carbonate does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
Lithium hexafluorophosphate(1-) does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
Graphite does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
Ethyl methyl carbonate does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
Nickel does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
1,4-Benzenedicarboxylic acid, 1,4-dimethyl ester, polymer with 1,4-cyclohexanedimethanol and 1,2-ethanediol does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
1-Propene, homopolymer does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
Poly[N,N'-(1,4-phenylene)-3,3',4,4'-benzophenonetetracarboxylic imide/amic acid] does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
Lithium carbonate does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
Carbon black does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
Benzene, ethenyl-, polymer with 1,3-butadiene does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
Acetic acid ethenyl ester, polymer with carbon monoxide and ethene does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
Carboxymethylcellulose Sodium does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
Succinonitrile does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.  
Aluminum lithium oxide (ALiO) does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

## Section 13 Disposal Considerations

**Waste Chemicals Contaminated Packaging Disposal Recommendations**

Before disposal should refer to the relevant national and local laws and regulation. Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. Refer to Waste chemicals and Contaminated packaging.

## Section 14 Transport Information



DC Power supply system (It is composed of rechargeable lithium electronic battery module V047-0001AA 9P28S 101.36V 3.15kWh) BX6.3\_DD

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**Transporting Label**



**Marine pollutant** No

**UN Number** 3480

**UN Proper Shipping Name** LITHIUM ION BATTERIES(including lithium ion polymer batteries)

**Transport Hazard Class** 9

**Transport Subsidiary Hazard Class** NONE

**Packing Group** Packagings shall conform to the packing group II performance level According to United Nations Recommendations on the Transports of Dangerous Goods•Model Regulations, Lithium batteries could be transported in accordance with the classification conclusions of this report when meet the requirements of UN38.3 test.

**Report remarks**

## Section 15 Regulatory Information

### > International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Litium nickel oxide	×	×	×	×	×	×	√	×	×
Carbon	√	√	√	√	√	√	√	√	×
Iron	√	√	√	√	√	√	√	√	×
Copper	√	√	√	√	√	√	√	√	×
Lithium nickel dioxide	×	√	×	×	√	×	√	×	×
Aluminium	√	√	√	√	√	√	√	√	×
Cobalt lithium dioxide	√	√	√	√	√	×	√	√	×
Dimethyl carbonate	√	√	√	√	√	√	√	√	√
Lithium manganate(III,IV)oxide	×	√	×	×	√	×	√	×	×
Polyethylene	×	√	√	√	√	√	√	√	√
Ethylene carbonate	√	√	√	√	√	√	√	√	√
Lithium hexafluorophosphate(1-)	√	√	×	√	×	√	√	√	×
Graphite	√	√	√	√	√	√	√	√	×



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Ethyl methyl carbonate	√	√	×	√	×	√	√	×	×
Nickel	√	√	√	√	√	√	√	√	×
1,4-Benzenedicarboxylic acid, 1,4-dimethyl ester, polymer with 1,4-cyclohexanedimethanol and 1,2-ethanediol	×	√	√	√	√	√	√	√	×
1-Propene, homopolymer	×	√	√	√	√	√	√	√	√
Poly[N,N'-(1,4-phenylene)-3,3',4,4'-benzophenonetetracarboxylic imide/amic acid]	×	×	×	×	×	×	×	×	×
Lithium carbonate	√	√	√	√	√	√	√	√	√
Carbon black	√	√	√	√	√	√	√	√	×
Benzene, ethenyl-, polymer with 1,3-butadiene	×	√	√	√	√	√	√	√	√
Acetic acid ethenyl ester, polymer with carbon monoxide and ethene	×	√	√	√	√	√	√	√	×
Carboxymethylcellulose Sodium	×	√	√	√	√	√	√	√	√
Succinonitrile	√	√	√	×	√	√	√	√	√
Aluminum lithium oxide (ALiO)	×	√	×	×	×	×	√	×	√

- [EINECS] European Inventory of Existing Commercial Chemical Substances.
- [TSCA] United States Toxic Substances Control Act Inventory.
- [DSL] Canadian Domestic Substances List.
- [IECSC] China Inventory of Existing Chemical Substances.
- [NZIoC] New Zealand Inventory of Chemicals.
- [PICCS] Philippines Inventory of Chemicals and Chemical Substances.
- [KECI] Existing and Evaluated Chemical Substances.
- [AICS] Australia Inventory of Chemical Substances.
- [ENCS] Existing And New Chemical Substances.

Note

"√" Indicates that the substance included in the regulations

"×" That no data or included in the regulations

## Section 16 Additional Information



DC Power supply system (It is composed of rechargeable lithium electronic battery module V047-0001AA 9P28S 101.36V 3.15kWh) BX6.3\_DD

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Date: Jun.26,2022

<b>Creation Date</b>	Jun.26,2022
<b>Revision Date</b>	Jun.26,2022
<b>Reason for Revision</b>	-

## > Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 9th revised edition).The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.





DC Power supply system (It is composed of rechargeable lithium electronic battery module V047-0001AA 9P28S 101.36V 3.15kWh) BX6.3\_DD

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## Terms of the Using of the Report

1. The report is issued by CCIC according to the information of the chemicals and the information of its shipping provided by the applicant (shipper or his agent).
2. According to the demand of this SDS, CCIC requires the applicant to provide true and exact sample and data.
3. Information from applicant is the key of this SDS, so CCIC will not respond for the wrong of applicant.
4. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
5. This report will be effective only after it is signed by the inspector, approver and stamped by CCIC.
6. CCIC guarantees the objectivity and fairness of this report, and carries out confidentiality obligations on business secrets such as business information, technical documents and so on.
7. The partly duplicating of this report is prohibited without the written approver of CCIC.
8. The report is invalid when anything of the following happens-illegal transfer, embezzlement, imposture, modification or tampering in any media form.

