

# List of Importers

Date: 11 August 2022

Revision 0

# **1. EGUANA PTY LTD**

Registered Responsible Supplier name: EGUANA PTY LTD Registered Responsible supplier number: E9845 ABN/IRDN: 80 630 181 734 TFN : 550 679 908 Expiry date: 8/5/2023

Address: 178 Cormack Road, Wingfield, SA 5013, Australia

Contact: Neil D'Souza, P. Eng. Director of Engineering E-mail address: neil.dsouza@eguanatech.com Cellphone# (403) 926-9272









	Design Report of Safety Data	Report No.: DG205#22 Date: 2020/10/10
Name of the sample	Rechargeable Li-ion Battery US3000C	105 日 1955 检验检测专用章
Applicant	Pylon Technologies Co., Ltd.	
Supplier	Pylon Technologies Co., Ltd.	
Composition of the sample	Lithium Iron Phosphate; Graphite; Copper; A difluoride); Carbon black; Polyacrylic acid; Li Nickel	
Warranty of Design	GLOBALLY HARMONIZED SYSTEM OF LABELLING OF CHEMICALS (GHS) Eighth re	
	Design Result of SDS please see next page	е.
Designer	Approver	Inta

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



SDS

# SAFETY DATA SHEET

# **Rechargeable Li-ion Battery US3000C**

Section 1

Pylon Technologies Co., Ltd.

According to GHS (Eighth Revised Edition)

**Product and Company Identification** > Product Identifier **Product Name** Rechargeable Li-ion Battery US3000C **Synonyms** > Relevant Identified Uses of the Substance or Mixture and Uses Advised Against **Relevant Identified** Please consult manufacturer Uses **Uses Advised Against** Please consult manufacturer. > Details of the Supplier of the Safety Data Sheet **Applicant Name** Pylon Technologies Co., Ltd. No.73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park Pudong, **Application Address** Shanghai 201203, China **Applicant Post Code** 200120 **Applicant Telephone** +86-21-51317697 **Applicant Fax** +86-21-51317698 **Applicant E-mail** xu.min@pylontech.com.cn **Supplier Name** Pylon Technologies Co., Ltd. Plant 8, No.505 Kunkai Road, Jinxi Town, Kunshan City, Jiangsu Province, **Supplier Address** PEOPLE'S REPUBLIC OF CHINA **Supplier Post Code** 215300 **Supplier Telephone** +86-21-51317697 **Supplier Fax** +86-21-51317698 **Supplier E-mail** xu.min@pylontech.com.cn

# > Emergency Phone Number

**Emergency Phone** +86-21-51317699 Number

> Hazards Identification Section 2

Hazard class and label elements of the product according to GHS (the eighth 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.8 (2019) Part 1.3.2.1.1]

> GHS Label Elements

Pictogram	Not applicable
Signal Word	Not applicable
> Hazard Statements	
	Not applicable
> Precautionary Statem	ents
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				
Component	Concentration (weight percent, %)	CAS No.	EC No.	
Lithium Iron Phosphate	Commercial secrets	15365-14-17		
Graphite	Commercial secrets	7782-42-5	231-955-3	
Copper	Commercial secrets	7440-50-8	231-159-6	
Aluminium	Commercial secrets	7429-90-5	231-072-3	
Poly(vinylidene difluoride)	Commercial secrets	24937-79-9	200-867-7	
Carbon black	Commercial secrets	1333-86-4	215-609-9	
Polyacrylic acid	Commercial secrets	9003-01-4	202-415-4	
Lithium hexafluorophosphate	Commercial secrets	21324-40-3	244-334-7	
Nickel	Commercial secrets	7440-02-0	231-111-4	

# Section 4 First Aid Measures

# > Description of First Aid Measures

General Advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin Contact	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.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	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.

#### Protecting of First-aiders

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

Suitable Extinguishing<br/>MediaDry chemical, carbon dioxide or alcohol-resistant foam.Unsuitable<br/>Extinguishing MediaDo 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.
- 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

## > Control Parameters

### **Occupational Exposure Limit Values**

Component	Country/Region	Limit Value	- Eight Hours	Limit Value	e - Short Term
component	country/Region	ppm	mg/m³	ppm	mg/m³
1 8 99 1	USA - OSHA	-	15		-
	South Korea		2	-	-
Graphite	Ireland	-	10	-	-
7782-42-5	Germany (DFG)	_	4	-	
	Denmark	-	2.5	-	5
	Australia	-	3 (4)	-	_
	The Netherlands	-	0.1	-	
Copper	Poland	_	0.2	-	_
7440-50-8	Latvia	-	0.5	-	1
	Germany (DFG)	-	0.01	-	0.02
	USA - OSHA	-	15	_	-
	South Korea	-	10	-	-
Aluminium	Ireland	-	1	-	-
7429-90-5	Germany (DFG)	-	4	-	-
	Denmark	-	5	-	10
	Australia	_	10	-	-
	USA - OSHA	-	3.5	-	-
	South Korea	-	3.5	_	-
Carbon black	Ireland	-	3.5	-	7
1333-86-4	France	-	3.5	-	-
	Denmark	-	3.5	-	7
	Australia	-	3	-	
Nickel	USA - OSHA	-	1	-	-
7440-02-0	South Korea	-	1	_	_

## Rechargeable Li-ion Battery US3000C

DG2057221E

Ireland	-	0.5	-	
Hungary	-	0.1	-	0.1
Denmark	-	0.05	-	0.1
Australia	_	1	-	-

#### **Biological Limit Values**

Component	Source	Biological monitoring index	Biological limits value	Sampling time	remar k
Lithium hexafluoropho sphate	SCOEL(EU)	Fluorine/urine	8mg/L	end of shift	

#### **Monitoring Methods**

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

Eye Protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand Protection	Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.
Respiratory protection	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.
Skin and Body Protection	Wear fire/flame resistant/retardant clothing and antistatic boots.

# Section 9 Physical and Chemical Properties

<b>Appearance:</b> Li-ion battery, individually packaged 48V 74Ah 3552Wh	' Odor: No information available
Odor Threshold: No information available	<b>pH:</b> No information available
Melting Point/Freezing Point (°C): No information available	Initial Boiling Point and Boiling Range (°C): No information available
Flash Point (°C) ( Closed Cup): Not applicable	Evaporation Rate: Not applicable
Flammability: No information available	<b>Upper/lower explosive limits[%(v/v)]:</b> Upper limit: No information available; Lower limit: No information available
Vapor Pressure (KPa): Not applicable	Relative Vapour Density(Air = 1): Not applicable
Relative Density(Water=1): No information available	Solubility: No information available
n-Octanol/Water Partition Coefficient: No information available	Auto-Ignition Temperature(°C): No information available
<b>Decomposition Temperature (°C):</b> No information available	Kinematic Viscosity (mm <sup>2</sup> /s): Not applicable
Particle characteristics: No information available	

<sup>1</sup> EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

	Section 10 Stability and Reactivity
Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical Stability</b>	Stable under proper operation and storage conditions.
Possibility of	Mixtures with metallic acetylene, when heated, cause a fire or incandescence.
Hazardous Reactions	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.
Incompatible Materials	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.
Hazardous Decomposition products	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)
Carbon black	1333-86-4	> 15400mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available
Polyacrylic acid	9003-01-4	2500mg/kg(Rat)	No information available	No information available

# > 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

Rechargeable Li-ion Battery US3000C

ID	CAS No.	Component	IARC	NTP
1	15365-14-17	Lithium Iron Phosphate	Not Listed	Not Listed
2	7782-42-5	Graphite	Not Listed	Not Listed
3	7440-50-8	Copper	Not Listed	Not Listed
4	7429-90-5	Aluminium	Not Listed	Not Listed
5	24937-79-9	Poly(vinylidene difluoride)	Not Listed	Not Listed
6	1333-86-4	Carbon black	Category 2B	Not Listed
7	9003-01-4	Polyacrylic acid	Category 3	Not Listed
8	21324-40-3	Lithium hexafluorophosphate	Not Listed	Not Listed
9	7440-02-0	Nickel	Category 2B	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

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
Aluminium	7429-90-5	LC <sub>50</sub> : 1.55mg/L (96h)(Fish)	No information available	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)

# > Chronic Aquatic Toxicity

No information available

> Others

Persistence and Degradability

No information available

Bioaccumulative Potential	No information available
Mobility in Soil	No information available
	Lithium Iron Phosphate 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.
	Copper 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.
Results of PBT and	Poly(vinylidene difluoride) does not meet the criteria for PBT and vPvB
vPvB Assessment	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.
	Polyacrylic acid does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.
	Lithium hexafluorophosphate 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.

# Section 13 Disposal Considerations

Waste	Chemical	S
		-

Contaminated Packaging Disposal Recommendations Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal. 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 section 13.1 and 13.2.

# Section 14 Transport Information

**Transporting Label** 



Marine pollutant	None
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 ${\mathbb I}$ performance level

# Section 15 Regulatory Information

> International Chemical Inventory

## Rechargeable Li-ion Battery US3000C

Component	EINECS	TSCA	DSL	IECSC	NZIOC	PICCS	KECI	AICS	ENCS
Lithium Iron Phosphate	×	×	×	×	×	×	×	×	×
Graphite	$\checkmark$	×							
Copper	√	$\checkmark$	$\checkmark$	√	√	√	$\checkmark$	$\checkmark$	×
Aluminium	√	$\checkmark$	$\checkmark$	√	√	$\checkmark$	√	$\checkmark$	×
Poly(vinylidene difluoride)	×	$\checkmark$	$\checkmark$	√	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	√
Carbon black	√	$\checkmark$	×						
Polyacrylic acid	√	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	×	$\checkmark$	$\checkmark$
Lithium hexafluorophosph ate	V	$\checkmark$	×	V	×	V	V	$\checkmark$	×
Nickel	$\checkmark$	×							

[Envecs] 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

" $\checkmark$ " Indicates that the substance included in the regulations

"×" That no data or included in the regulations

	Section 16	Additional Information	
Creation Date	2020/10/10		
<b>Revision Date</b>	2020/10/10		
<b>Reason for Revision</b>			

#### > Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 8th 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.





#### 正本 ORIGINAL

# Terms of the Using of the Report

- 1. The report is issued by DPTC 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, DPTC requires the applicant to provide true and exact sample and data.
- 3. Information from applicant is the key of this Label, so the center 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.

南京海关危险货物与包装检测中心

国家化学品分类鉴别与评估重点实验室

- 5. This report will be effective only after it is signed by the inspector, approver and stamped by DPTC.
- 6. Our center 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 DPTC.
- 8. The report is invalid when anything of the following happens-illegal transfer, embezzlement, imposture, modification or tampering in any media form.
- 9. The authenticity of the certificate can be checked by scanning the QR code of this certificate.



