

Add.	No.3492 Jinqian Road, Fengxian District, Shanghai, China	P.C	20231123
TEL	021-57475847	FAX	021-57475827

MATERAL SAFETY DATA SHEET

Issue date:2023-11-23 Rev: A.0

MSDS REF. NO.: 20231123

LITHIUM-ION RECHARGEABLE BATTERY

MATERIAL SAFETY DATA SHEET

IDENTITY	Product Category	:	Rechargeable Li-ion Battery Pack
	Model Name	:	1263
	Brand	:	PYTES
	Nominal Capacity	:	3500mAh
	Nominal Voltage	:	7.2V
	Watt-hour	:	25.2W/hr
	Chemical System	:	Lithium-Ion (Li-ion)
	Desigened for Recharge	:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

SECTION 1 MANUFACTURER'S INFORMATION

Manufacturer's Name	:	ShanghaiPYTES Energy Co.,LTD
Supplier's Name	:	ShanghaiPYTES Energy Co.,LTD
Supplier's Address	:	No.3492,Jinqian Road, Fengxian District, Shanghai, China
Information Telephone	:	+ 0086 (21) 5747-5847
Emergency Telephone	:	+ 0086 (21) 5747-5821
Date Prepared	:	2023/11/23

SECTION 2 Composition

Hazardous Ingredients	%	CAS Number
Aluminum Foil	2-10	7429-90-5
Nickel compound (proprietary)	0-80	1313-99-1
Manganese compound (proprietary)	0-15	1313-13-9
Cobalt compound (proprietary)	0-15	1307-96-6
Styrene-Butadiene-Rubber	<1	9003-55-3
Polyvinylidene Fluoride (PVDF)	<5	24937-79-9
Copper Foil	2-10	7440-50-8
Carbon (proprietary)	10-30	7440-44-0

Pytes ShanghaiPYTES Energy Co.,LTD

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Electrolyte (proprietary) 10-20 96-49-1

Steel, Nickel and inert materials Remainder N/A

* Equivalent Lithium content : 1.55g, Cell Energy :12.7Wh

SECTION 3 Hazard Data

Primary routes of entry

Skin contact	:	NO
Skin absorption	:	NO
Eye contact	:	NO
Inhalation	:	NO
Ingestion	:	NO

Symptoms of exposure

Emergency Overview

May explode in a fire, which could release hydrogen fluoride gas. Use extinguishing media suitable for materials burning in fire.

Skin contact

No effect under routine handling and use.

Skin absorption

No effect under routine handling and use.

Eye contact

No effect under routine handling and use.

Inhalation

No effect under routine handling and use.

Reported as carcinogen

Not applicable

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SECTION 4 FIRST-AID MEASURES

Inhalation

Not a health hazard.

Eye contact

Not a health hazard.

Skin contact

Not a health hazard.

Ingestion

If swallowed, obtain medical attention immediately.

IF EXPOSURE TO INTERNAL MATERIALS WITHIN CELL DUE TO DAMAGED OUTER CASING, THE FOLLOWING ACTIONS ARE RECOMMENDED ;

Inhalation

Leave area immediately and seek medical attention.

Eye contact

Rinse eyes with water for 15 minutes and seek medical attention.

Skin contact

Wash area thoroughly with soap and water and seek medical attention.

Ingestion

Drink milk/water and induce vomiting; seek medical attention.

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SECTION 5 FIRE-FIGHTING MEASURE

General Hazard

Cell is not flammable but internal organic material will burn if the cell is incinerated. Combustion products include, but are not limited to hydrogen fluoride, carbon monoxide and carbon dioxide.

Extinguishing Media

Use extinguishing media suitable for the materials that are burning.

Special Firefighting Instructions

If possible, remove cell(s) from fire fighting area. If heated above 125°C, cell(s) may explode/vent.

Firefighting Equipment

Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.

SECTION 6 ACCIDENTAL RELEASE MEASURES

On Land

Place material into suitable containers and call local fire/police department.

In Water

If possible, remove from water and call local fire/police department.

SECTION 7 Handling and Storage

Handling

No special protective clothing required for handling individual cells.

Storage

Store in a cool, dry place

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SECTION 8 Exposure Controls/Personal Protection

Engineering controls

Keep away from heat and fire. Keep in a cool and dry place.

Personal Protection

Respirator

Not required during normal operations. SCBA required in the event of a fire.

Eye/face protection

Not required beyond safety practices of employer.

Gloves

Not required for handling of cells.

Foot protection

Steel toed shoes recommended for large container handling.

SECTION 9 Physical And Chemical Properties

State	Solid
Odor	N/A
PH	N/A
Vapor pressure	N/A
Vapor density	N/A
Boiling point	N/A
Solubility in water	Insoluble
Specific gravity	N/A
Density	N/A

SECTION 10 STABILITY AND REACTIVITY

Reactivity

None

Incompatibilities

There are nothings during a normal operation. Avoid exposure to heat, open flame, and corrosives.

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Hazardous Decomposition Products

There are nothings during normal operating conditions. If cells are opened, hydrogen fluoride and carbon monoxide may be released.

Conditions to Avoid

Avoid exposure from heat and fire. Do not puncture, crush, and incinerate.

SECTION 11 TOXICOLOGICAL INFORMATION

This product does not contain elicit toxicological properties during routine handling and using.

Sensitization	Teratogenicity	Reproductive toxicity	Acute toxicity
NO	NO	NO	NO

If cells are opened through misuse or damage, do discard immediately.

Internal components of cell are irritants and sensitizers.

SECTION 12 ECOLOGICAL INFORMATION

Some materials within the cell are bioaccumulative. Under normal conditions, these materials are sealed into cell, and then there is no risk to persons or the surrounding environment.

SECTION 13 DISPOSAL CONSIDERATIONS

California regulated debris

RCRA Waste Code : Nonregulated

Dispose of according to all federal, state, and local regulations.

SECTION 14 Transport information

Lithium batteries are classified in Class 9 – Miscellaneous dangerous goods as:

- UN 3480, Lithium ion batteries
- UN 3481, Lithium ion batteries contained in equipment; or
- UN 3481, Lithium ion batteries packed with equipment.

With regard to transport of the product, the following regulations are cited and considered:

The International Civil Aviation Organization (ICAO) Technical Instructions,

The International Air Transport Association (IATA) Dangerous Goods Regulations The International

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Maritime Dangerous Goods (IMDG) Code,

US Hazardous Materials Regulations 49 CFR(Code of Federal Regulations) Sections 173-185 Lithium batteries and cells,

The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium batteries,

If those lithium-ion batteries are packed with or contained in an equipment, then it is the responsibility of the shipper to ensure that the consignment are packed in compliance to the latest edition of the IATA Dangerous Goods Regulations Section II of either Packing Instruction 966 or 967 in order for that consignment to be declared as NOT RESTRICTED (non-hazardous/non-Dangerous). If those lithium-ion batteries are packed with or contained in an equipment, UN No. is UN3481

Each cell or battery is of the type proven to meet the requirements of each test in the UN Manual of Tests and Criteria, Part III, subsection 38.3;

SECTION 15 REGULATORY INFORMATION

This product is not hazardous under the criteria of the Federal Occupational Safety and Health Administration(OSHA) Hazard Communication Standard.(29 CFR 1910.1200)

Hazardous

Non-hazardous