

Safety Data Sheet (SDS)

Prepared For: NAVAC Inc

Product Name: Li-ion Battery

Model: PL1 (10440)

Nominal Voltage: 3.7V

Rated Capacity: 320mAh, 1.184Wh

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No.: TCT240715M045-1

Checked by



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Approved by



Evan Chen
Technical Manager



Section 1- Chemical Product & Company Identification

(a) Product identifier

Product Name Li-ion Battery

Model PL1 (10440)

(b) Relevant identified uses of the substance or mixture and uses advised against

Recommended Use No information available

Uses advised against No information available

(c) Details of the supplier of the safety data sheet

Supplier NAVAC Inc

Address 1099 Wall St West, Ste 179 Lyndhurst, NJ07071, USA

Contact Person Zhuk Zhang

Phone 1-877-696-2822

Fax ----

E-mail zzhang@navacglobal.com

(d) Emergency telephone number

1-877-696-2822

Section 2- Hazards Identification

(a) Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

(b) Label elements, including precautionary statements

Symbols/Pictograms None

Signal word None

Hazard Statements Not applicable

Precautionary Statements Not applicable

(c) Other hazards

No information available

Section 3- Composition/Information on Ingredients

(a) Substance/Mixtures/Article （依据样品选择，删除不需要）

Chemical Name	CAS No.	CONTENT%
Lithium Cobalt Oxide (CoLiO ₂)	12190-79-3	30-60
Graphite	7782-42-5	10-30
Phosphate(1-), hexafluoro-, lithium	21324-40-3	10-30
Copper	7440-50-8	5-10
Aluminum foil	7429-90-5	1-5
Nickel	7440-02-0	1-5

Section 4- First Aid Measures

(a) Description of first aid measures

General advice	In case of accident or unwellness, seek medical advice immediately
Inhalation	If fumes or combustion products are inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell
Ingestion	Give water to rinse out mouth, then drink plenty of water, vomiting, and go to a doctor
Eye contact	Keep eyelids apart and away from eye and moving the eyelids by lifting the upper and lower lids occasionally, flush eyes with plenty of water or saline water for at least 15 minutes, call a physician if irritation persists.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

(b) Most important symptoms and effects, both acute and delayed

No information available

(c) Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Section 5- Fire Fighting Measures

(a) Extinguishing media

Suitable extinguishing media Water, Dry powder, CO₂, Foam

Unsuitable extinguishing media No information available

(b) Special hazards arising from the substance or mixture

No information available

(c) Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear;
Prevent, by any means available, spillage from entering drains or water courses;
Use water delivered as a fine spray to control fire and cool adjacent area.

Section 6- Accidental Release Measures

(a) Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. Do not breathe dust/fume/gas/mist/vapors/spray.

(b) Environmental precautions

Prevent product from entering drains

(c) Methods and material for containment and cleaning up

Pick up and transfer to properly labeled containers. Avoid generation of dust

Section 7- Handling and Storage

(a) Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapors/spray

(b) Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture and fire. Store away from Oxidant, acids, halogen, Equipped with corresponding varieties and number of fire equipment and leakage emergency treatment equipment.

Section 8 - Exposure Controls/Personal Protection

(a) Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas

(b) Personal protective equipment

Personal protective equipment Respiratory Protection: Special protection is generally not required, but if exposed to dust, it is recommended to wear self absorption filter dust masks

Skin Protection: Wear suitable protective clothing and gloves

Eye Protection: Not necessary under normal conditions. Wearing chemical safety protective glasses if necessary

Hygiene Measures Wash hands or take a shower after working

(c) Environmental exposure controls

Avoid release to the environment

Section 9- Physical and Chemical Properties

Appearance& Form	Blue Cylinder Solid
Odor	None
pH, with indication of the concentration	No data
Melting/freezing point	No data
Boiling Point, initial boiling point and Boiling range	No data
Flash Point	No data
Evaporation rate	No data
Flammability (soil, gas)	No data
Upper/lower flammability or explosive limits	No data
Vapor pressure	No data
Vapor Density (Air = 1)	No data
Density/relative density	No data
Solubility in Water	Insoluble in water.
Autoignition temperature	No data

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Decomposition temperature	No data
Kinematic viscosity	No data
Dynamic viscosity	No data
Explosive properties	No data
Oxidizing properties	No data

Section 10 – Stability and Reactivity

(a) Reactivity

Stable under normal conditions

(b) Chemical stability

Stable under recommended storage conditions

(c) Possibility of hazardous reactions

None under normal processing

(d) Conditions to avoid

No information available

(e) Incompatible materials

No information available

(f) Hazardous decomposition products

No information available

Section 11 – Toxicological Information

(a) Information on toxicological effects

Acute toxicity	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/eye irritation	Not classified
Sensitization	No sensitization responses were observed
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT - single exposure	Not classified

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STOT - repeated exposure

Not classified

Aspiration hazard

Not classified

Section 12-Ecological Information

Toxicity	No information available
Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Other adverse effects	No information available

Section 13 – Disposal Considerations

Waste treatment methods	Product disposal recommendation: Observe local, state and federal laws and regulations. Packaging disposal recommendation: Containers may be recycled or re-used. Observe local, state and federal laws and regulations. The potential effects on the environment and human health of the substances used in material; the desirability of not disposing of waste material as unsorted municipal waste and of participating in their separate collection so as to facilitate treatment and recycling;
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Section 14 – Transport Information

UN Number	3480 & 3481
Proper shipping name	Lithium ion batteries (including lithium ion polymer batteries) or; Lithium ion batteries packed with equipment (including lithium ion polymer batteries) or; Lithium ion batteries contained in equipments (including lithium ion polymer batteries).
Hazard Class	Class 9 (PI965 Section IB) or N/A (PI966~967 Section II)
Packing Group	N/A
Environmental hazards	N
Special precautions	No information available
Transport in bulk according to Annex II of MARPOL 73/78 and	Not applicable

the IBC Code

Section 15 – Regulatory Information

Safe, health and environment regulations/ legislation specific for the substance or mixture

International laws/ regulations

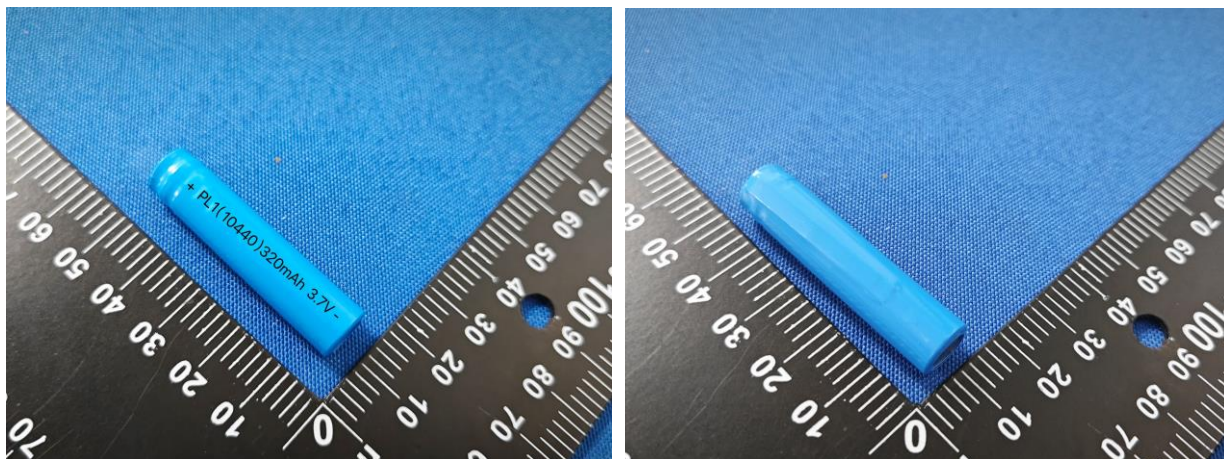
Tags according to EU guidelines

The product should follow the relevant regulations of EU Directive/Hazardous substances regulations

Section 16 – Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.



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