



NEXcell BATTERY CO., LTD

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT AND MANUFACTURER INFORMATION

PRODUCT COMPANY : NEXcell Battery Co., Ltd.

Established on April 8, 1994, NEXcell Battery Co., Ltd. was jointly conceived by a number of internationally renowned battery experts along with various multinational Taiwanese companies. Its main purpose is to design and produce high performance rechargeable batteries.

PRODUCT NAME: Lithium ion Rechargeable Battery.

MODEL: Lithium ion 18650

PRODUCT TYPE: 18650 2.6Ah 9.62Wh

NOMINAL VOLTAGE/VOLTAGE: 3.7V

Designated for recharge: Yes

Date: 2023/01/03

HAZARD RATINGS*

Rating Key

0=minimal

1=slight

2=moderate

3=serious

4=severe

	<u>NPCA/HMIS</u>	<u>NFPA 704</u>
Health:	0	0
Flammability:	0	0
Reactivity:	0	0

* See Section 16 for abbreviations used in this MSDS



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SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

None of the ingredients in this product is considered to be hazardous.

MATERIAL OR INGREDIENT	Wt %
Lithium	1.4
Cobalt	21.4
Oxygen	10.9
Carbon	18.6
Aluminum	34.6
Calcium	9.5
Polymer	3.6
Lead	free
Cadmium	free
Mercury	free
For single cell	
Flash point	over 150 deg. C
Flavor	none
Toxicity	none
Corrosiveness	none

SECTION 3 – HAZARDS IDENTIFICATION / EMERGENCY OVERVIEW

Nonflammable Solid

Inhalation - Product is not respirable.

Ingestion - Product cannot be ingested.

Skin Contact - No adverse effects expected

Eye Contact - No adverse effects expected. Product will not directly contact the eyes.

Carcinogenic: IARC- No,

NTP - No,

OSHA - No

SECTION 4 – FIRST AID MEASURES

Inhalation – No first aid needed.

Ingestion - No first aid needed. Skin

Contact - No first aid needed.

Eye Contact - No first aid



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SECTION 5 – FIRST FIGHTING MEASURES

Nonflammable Solid: This product will not burn.

Extinguishing Media: Whatever is appropriate for surrounding media

Special Fire - fighting Procedures or Equipment: None

Hazardous Combustion Products: None

Unusual Fire /Explosion Hazards: None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Pick up and place in appropriate container.

SECTION 7 – HANDLING AND STORAGE

Handling: Accidental short circuit for a few seconds will not seriously affect the battery. However, this battery is capable of delivering very high short circuit currents. Prolonged short circuits will cause high temperature that can cause skin burns. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, and metal covered tables or metal belts used for assembly of batteries into devices. If soldering or welding to the battery is required, use of tab lead on the batteries is recommended. Do not open the battery. The negative electrode material may be inflammable. Should an individual cell from a battery become disassembled, spontaneous combustion of the negative electrode is possible. There can be a delay between exposure to air and spontaneous combustion.

Storage: Store in a cool, well ventilated area. Elevated temperature can result in reduced battery cycle life.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

None required

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance/State: Solid



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Odor: None

State	Solid
pH	N/A
Vapor Pressure	N/A
Boiling Point	N/A
Specific Gravity	N/A
Density	N/A

SECTION 10 – STABILITY AND REACTIVITY

Stability: None is during normal operation. Avoid exposure to heat, open and corrosives.

Reactivity: None

SECTION 11 – TOXICOLOGICAL

This product does not elicit toxicological properties during handling and use.

SECTION 12 – ECOLOGICAL

This product is not expected to cause toxicity to the environment. Components of this material are not biomagnified or bio-concentrated in the environment.

SECTION 13 – DISPOSAL CONSIDERATIONS

This product may be disposed in a municipal landfill.

SECTION 14 – TRANSPORTATION

This product is not regulated by the US Department of Transportation.

This lithium ion polymer battery meet all the requirements of the IATA DGR 64th edition 2023, under special provisions A99 including UN38.3 test and 1.2m drop test. They can be shipped as “Not Restricted” cargo in accordance with IATA Dangerous Good Regulations Section II of Packing Instruction PI965 to PI967 of IATA DGR item UN3480. This product is not restricted as per ADR/IMDG SP 188.

SECTION 15 – REGULATORY

This regulatory information included here should not necessarily be considered all inclusive. None of the ingredients in this products are subjected to the reporting requirements of the CERCLA, the Clean Air Act and the Clean Water Act(US). This product is not formulated with, nor do the manufacturing or formulation process utilize any Class I or II Ozone depleting substance.



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SECTION 16 – OTHER INFORMATION

The recommendation and information contained in this MSDS have been compiled from sources believed to represent the most current information available when the MSDS was prepared. However, the manufacturer/ distributor of this product provides any warranty, guaranty representation as to the correctness or sufficiency of this information. If this product is to be used in large amount and /or an unusual manner, the user is obliged to determine what safety measures are appropriate, including the applicable and relevant workplace and environmental regulations pertaining to handling, use and disposal.

Abbreviations used in this MSDS

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

CFR = Code of Federal Regulations

IARC = International Agency for Research on Cancer

NFPA = National Fire Protection Association

NPCA/HMIS = National Paint & Coatings Association/ Hazardous Materials Identification System

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration