Suzhou Power Solutions Co., Ltd.

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Report No.: ZJ20220102MSDS12

MATERIAL SAFETYDATA SHEET

Product Name: Li-Ion Polymer Battery

Type/Model: ZJ 18650 3.7V 2600mAh 9.62Wh

Revision Date: Jan.02.2022

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SECTION1:Identification of the substance/mixture and of the company/undertaking

1.1Product Identifier

Name of Product :Lithium-ion rechargeable pack battery

1.20ther means of identification

ProductModels:ZJ18650 NominalVoltage:3.7V

Nominal capacity:2600mAh Nominal Power: 9.62Wh

Weight: 46g

1.3Recommended use of the chemical and restriction on use

Recommended Use: Rechargeable Li-ion Battery **Restriction on Use:** No information available

1.4Information Of Company:

Company Name: Suzhou Power Solutions Co., Ltd.

Address: Building 5, Sunwu Road 600, Xukou Town Wuzhong District, Suzhou City, Jiangsu Province,

China.

Zip code:215164

Contact person: Chen Zhiming

Tel:+86-158 6247 3312

E-mail: sz_zhijie@163.com

1.5EmergencyTelephone

+86-158 6247 3312

SECTION2.Hazard(s) Identification

2.1Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard(29CFR1910.1200). This product is an article which is a sealed battery and as such does not require an SDS per the OSHA hazard communication standards unless ruptured. The hazards indicated are for a ruptured battery.

Skin corrosion/irritation	Category2
Serious eye damage/eye irritation	Category2A
Carcinogenicity	Category2
Specific target organ toxicity(repeated exposure)	Category1

2.2 Label elements

2.2.1SignalWord Danger

2.2.2HazardStatements

This is a battery. In case of rupture:.

Harmful if swallowed

Toxic if swallowed

Harmful in contact with skin

Cause severe skin burn sand eye damage

May cause an allergic or reaction

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May cause cancer Cause damage to organs May cause respiratory irritation

2.2.3Symbol







This product is an article which contains a chemical substance. Safety information is given for exposure to the article as solid. Intended use of the product should not result in exposure to the chemical substance, This is a battery. In case of rupture: the above hazards exist.

2.3PrecautionaryStatements

2.3.1PrecautionaryStatements - Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Use personal protective equipment as required.

Wash face, hands and any exposed skin thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Keep away from flames and hot surface –no smoking.

Do not breath dust/fume/gas/mist/vapors/spray.

Do not eat, drink or smoke when using this product.

Wear protective gloves

2.3 .2PrecautionaryStatements –Response

If exposed or connected: Get medical advice/attention. Specific treatment(see supplemental first aid/instruction on this label).

Skin

If on skin: wash with plenty of soap and water. Take off contaminated clothing and water Before reuse, if skin irritation or rash occurs: get medical advice/attention if feel unwell.

Eye

If in eyes: Rinse cautiously with water for several minutes, remove contact lenses, if present And easy to do, Continue rinsing. Call a poison center or doctor/physician.

Inhalation

If inhalation: if breathing is difficult, remove victim to fresh air and keep at rest in a position Comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or doctor/physician.

Ingestion

If swallowed: rinse mouth, do not induce vomiting ,Call a poison center or doctor/physician if Feel unwell.

2.3.3PrecautionaryStatements - Storage

Store locked up

2.3.4PrecautionaryStatements – Disposal

Dispose of contents/container to an approved waste disposal plant.

2.4Hazards not otherwise classified (HNOC)

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Not applicable

2.5 Unknown Toxicity

10% of the mixture consists of ingredient(s) of unknown toxicity.

2.60ther information

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.7Interactions with other chemicals

Use of alcoholic beverages may enhance toxic effect.

SECTION 3. Composition/Information on Ingredients

Chemical Name	CAS No.	Weight%
Nickelous oxide	1313-99-1	< 30
Carbon	7440-44-0	< 30
Polyvinylidene Fluoride	24937-79-9	<10
Aluminum foil	7429-90-5	2-10
Copper foil	7440-50-8	2-10
Electrolyte		< 20
Aluminum and inert materials		5-10

ET7680 4. FirstAidMeasures

4.1 General Advice

First aid is Applicable only in the case of cell rupture.

4.1.1 Eye contact

Ifsymptomspersist, callaphysician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keepeyes wide open while rinsing. Remove contact lenses, if present and easy to do . Continue rinsing. Do not rub affected area.

4.1.2Skin Contact

Wash off immediately with plenty ofwaterandsoapforatleast15minutes.Inthecaseofskin Irritation or allergic reaction see a physician. May cause an allergic skin reaction.

4.1.3InhalationofVentedGas

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substances; give artificial respiration with the aid of a pocket mask equipped with a one-way value or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get medical attention immediately if symptoms occur.

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4.1.4Ingestion

Donotinducevomiting. Rinsemouthimmediately and drink plenty of water. Never give Anything by mouth to a nunconscious person. Callaphysician or poison control center immediately.

4.1.5Self-protection of the first aider

Ensurethatmedicalpersonnelareawareofthematerial(s)involved. Takeprecaution to Protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personnel protective equipment as required. Wear personnel protective clothing (see section 8).

4.2Most important symptoms and effects, both acute and delayed

Burning sensation, Itching. Rashes. Hives, Coughing.

4.3Indicationofanyimmediate medical attention and special treatment needed

Notes to physician

Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or Esophagusshouldbeinvestigated.Donotgivechemicalantidotes.Asphyxiafromglottal Edemamayoccur.Markeddecreaseinbloodpressuremayoccurwithmoistrales,frothy sputum, and high pulse pressure. May cause sensitization of susceptible persons. Treat symptomatically.

SECTION5.Fire-FightingMeasures

5.1Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

5.3 Specific Hazards Arising from the chemical

Thermaldecomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathefumes. May cause sensitization by inhalation and skin contact. Product is or contains a sensitizer.

Hazardous Combustion products

CO,CO2, Metals oxides, Irritating fumes

5.4 Explosion Data

Sensitivity to Mechanical Impact :No. Sensitivity to Static Discharge: No.

5.5Protective equipmentand precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/IOSH (approved orequivalent)andfullprotectivegear. Move containers from fire area if you can do It without risk.

SECTION6. Accidental Release Measures

6.1Personaprecautions, protective equipmentand emergency procedures

Avoid contact with skin, eyes or clothing. Ensure a dequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keeppeople away from and upwind of spill/leak.

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6.2Environmental Precautions

Refer to protective measures listed in Sections7and 8.Prevent further leakage or spillage if Safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

6.3Methodsforcontainment

Prevent further leakage or spillage if safe to do so. Absorb with earth, sand or other non-combustible material land transfer to containers for later disposal.

6.4Methodsforcleaningup

Pick up and transfer to properly labeled containers.

SECTION7.Handling and Storage

7.1Precaution for safe handling

Incaseofrupture, usepersonal protection equipment. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

7.2Conditions for safe storage, including any incompatibilities

Storage

Keepcontainerstightlyclosedinadry,coolandwell-ventilatedplace.Storelockedup.Keep Out of the reach of children.

Incompatible products

Strong acids. Strong oxidizing agent.

SECTION 8. Exposure Controls/Personal Protection

8.1 Exposure Guidelines

Not established

8.2Appropriateengineeringcontrols

Engineering Measures:

Showers, Eye wash stations, Ventilation systems

8.3Individual protection measures, such as personal protective equipment

Respiratoryprotection:Noprotectiveequipmentisneededundernormaluseconditions.If Exposure limits are exceeded or irritation is experienced, ventilation and evacuation maybe required.

Eye /face protection: if splashes are likely to occur: Wear safety glasses with side shields(or goggles). None required for consumer use.

Skin protection: Wear protective gloves and protective clothing. Long sleeved clothing Imperious gloves.

Hygiene Measure: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all contaminated protective equipment before re-use. No information available.

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SECTION9. Physical and Chemical Properties

Physical State: Solid

Color:Blue

Odor:Odorless

Odor Threshold: No information available

pH:No data available

Melting/freezing point: No data available

Boiling point/boiling range: No data available

Flash Point: No data available

Evaporation Rate: No data available

Flammability(Solid, gas): No data available

Flammability Limit in Air:

Upper flammability limit: No data available

Lower flammability limit: No data available

Vapor pressure: No data available

Vapor density: No data available

Specific Gravity: No data available

Solubility: Insoluble in water

Partition coefficient: n-octanol/water: No data available

Auto ignition temperature: No data available

Decomposition temperature: No data available

Kinematicviscosity: No data available

Dynamicviscosity:No data available

SECTION10.StabilityandReactivity

Reactivity:

No data available

Chemical stability:

Stable under recommended storage conditions.

Possibility of Hazardous Reactions:

None under normal processing.

Hazardous Polymerization:

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Hazardous polymerization dose not occur.

Conditions to avoid:

Do not subject battery to mechanical shock. Keep away from open flames, high temperature.

Incompatible materials:

Strong acids, Strong oxidizing agents. Strong bases.

Hazardous decomposition products:

Under fire conditions, the electrode materials can form carcinogenic cobalt oxides.

SECTION11.ToxicologicalInformation

11.1Information likely routes of exposure

Product information:

Productdoesnotpresentanacutetoxicityhazardbasedonknownorsuppliedinformation.In Case of rupture:

Inhalation:

Specifictestdataforthesubstanceormixtureisnotavailable. Corrosive by inhalation (baseon components). In halation of corrosion fumes/gases may cause coughing, choking, headache, dizziness sand weakness for several hour. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure and increased heart rate. Inhaledcorrosion substances can lead to a to consider the lungs. Pulmonary edemacan be fatal. May cause irritation of respiratory tract.

Eye Contact:

Specific test data for the substance or mixture is not available. Cause burns. (based on components). Corrosion to the eyes and may cause serious eye damage. May cause irreversible damage to eyes.

Skin Contact:

Specific test data for the substance or mixture is not available. Corrosion (based on components). Cause burns. Toxic in contact with skin. May be absorbed through the skin in harmful amounts.

Ingestion:

Specific test data for the substance or mixture is not available. Cause burns. (based on components). Ingestion cause burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may causes shortness of breath and choking. May cause lung damage if

swallowed. Maybe fatal if swallowed and enters airways. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Maybe harmful if swallowed.

11.2Informationontoxicological effects

Symptoms:

Erythema(skin redness). May cause redness and tearing of eyes. Itching. Rashes. Hives. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling Of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/or wheezing.

11.3Delayedand immediate effects as well as chronic effects from short and long-term

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Sensitization: May cause sensitization of susceptible person, May cause sensitization by skin

contact. May cause sensitization by inhalation.

Mutagenic Effects: No information available.

Carcinogenicity: Cobalt and Cobalt compounds are considered to be possible

human carcinogen(s)

ACGIH(American Conference of Governmental Industrial Hygienists)

A3-AnimalCarcinogen

IARC(International Agency for research on Cancer)

Group2B- Possibly Carcinogenic to humans

NTP(NationalToxicologyProgram)ReasonablyAnticipated-reasonablyanticipatedtobea Human Carcinogenic.

OSHA(Occupational safety and Health Administration of the US Department of Labor) X-Present

Reproductive Toxicity: No information available.

STOT- single exposure: No information available.

STOT-repeatedexposure: No information available.

ChronicToxicity:Prolongedexposuremaycausechroniceffects.Repeatedcontactmaycause allergicreactionsinverysusceptiblepersons.Containaknownorsuspectedcarcinogen. Avoid repeated exposure. May cause adverse effects on the bone marrow and bloodforming system.May cause adverse liver effects.

TargetOrganEffects:Respiratorysystem.Eyes.Skin.Gastrointestinaltract(GI).Blood.Central Nervous System(CNS). Kidney. Liver. Lungs. Nasal cavities.

Aspiration Hazard:No information available.

SECTION12. Ecological Information

Ecotoxicity: Water hazard class1(Self-assessment): slightly hazardous for water.

Persistenceand Degradability: No information available

Bioaccumulation:No information available

Other adverse effects: No information available

SECTION13.DisposalConsiderations

13.1Waste treatment methods

Disposal methods:

Thismaterial, assupplied, is not a hazardous was teaccording to Federal regulations (40 CFR 261). This material could become a hazardous was te if it is mixed with or otherwise comes in Contact with a hazardous was te, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous was te. Consult the appropriate state, regional, or local regulations for additional requirements. Should not be released into the environment.

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Contaminated Packaging:

Dispose of in accordance with federal, state and local regulations.

SECTION14.Transportation Information

IATA:

Proper Shipping Name: Li-Ion Polymer Batteries/packed with equipment/Contained in equipment

Transporthazard class(es): 9

UN Number: UN3480/UN3481

The battery has passed the test items of UN Model Regulations, Manual of Test and Criteria,

Part III, sub-section 38.3. According to IATA DGR63nd Edition, PACKING INSTRUCTION 965-967 of section II or IB for transportation.

IMO:

Proper Shipping Name: Li-Ion Polymer Batteries/packed with equipment/Contained in equipment

UN Number: UN3480/ UN3481

The battery has passed the test items of UN Model Regulations, Manual of Test and Criteria,

Part III, sub-section 38.3. The goods is not restricted to IMO IMDG CODE(Amend 39-18) according to special provision 188.

SECTION15.Regulatoryinformation

Regulatory information OSHA hazard communication standard(29 CFR 1910.1200)

Hazardous √ Non-hazardous

SECTION16.OtherInformation

Preparation and revision:

Prepared By: Suzhou Power Solutions Co.,Ltd.

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