

SDS

SAFETY DATA SHEET

According to 2012 OSHA Hazard Communication Standard
(49 CFR 173.185, 49 CFR 172.102)

Goods Name : Rechargeable Lithium-ion Battery Pack

Model Name : ZN 18650 5200mAh 2P

Applicant : GUANGDONG ZHAONENG TECHNOLOGY CO., LTD.

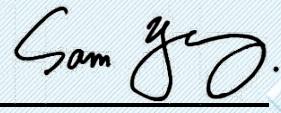
Report Number : KS2106S1686B04

Issue Date : June 21, 2021

Written by:



Approved by:



KSIGN(Guangdong) Testing Co., Ltd.





Safety Data Sheet

According to 2012 OSHA Hazard Communication Standard
(49 CFR 173.185, 49 CFR 172.102)

Report No.: KS2106S1686B04

* The SDS is prepared based on the information provided by client. The contents and formats of this SDS are revised as per client's request.

1. IDENTIFICATION

Product identifier

Product Name Rechargeable Lithium-ion Battery Pack (Model: ZN 18650 5200mAh 2P)

Other means of identification

Product description Rating: 3.7Vd.c., 5200mAh, 19.24Wh
Weight: appr. 92.2g
Dimensions: Max.: (18.5*36.8*66.5)mm

Trademark

Recommended use of the chemical and restrictions on use

Recommended Use LITHIUM ION BATTERIES

Restrictions on use No information available

Details of the supplier of the Safety Data Sheet

Initial supplier identifier GUANGDONG ZHAONENG TECHNOLOGY CO., LTD.

Address No.8 Nanda Road, Jinsha Chengnan Industrial Zone, Danzao Town, Nanhai District, Foshan city, Guangdong, China

Manufacturer GUANGDONG ZHAONENG TECHNOLOGY CO., LTD.

Address No.8 Nanda Road, Jinsha Chengnan Industrial Zone, Danzao Town, Nanhai District, Foshan city, Guangdong, China

Telephone +86-757-81289782

Website <http://www.zhaoneng-battery.com/>

E-mail info@zhaoneng-battery.com

Emergency telephone number

Company Emergency Phone Number +86-757-81289782

2. HAZARDS IDENTIFICATION

Classification

LITHIUM ION BATTERIES

Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

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GHS Label elements, including precautionary statements

Signal Word: Danger

Hazard Label



Hazard statements

This is a battery. In case of rupture:.

Harmful in contact with skin

Causes severe skin burns and eye damage

May cause an allergic skin reaction

May cause cancer

Causes damage to organs through prolonged or repeated exposure

CAS#7429-90-5

Classification according to GHS

Substances and mixtures which, in contact with water, emit flammable gases (2, 3)

Specific target organ toxicity, repeated exposure (1) (respiratory system)

H261 in contact with water releases flammable gas

H372 causes damage to organs through prolonged or repeated exposure (respiratory system)

CAS# 7440-50-8

Classification according to GHS

Sensitisation, skin(1, 1A, 1B)

Specific target organ toxicity, single exposure (1)(digestive system)

Specific target organ toxicity, single exposure; Respiratory tract irritation(3)

H317 May cause an allergic skin reaction

H370 causes damage to organs (digestive system)

H335 May cause respiratory irritation

Precautionary Statements - Prevention

CAS#7429-90-5

P223 Do not allow contact with water.

P231+ P232 Handle and store contents under inert gas, protect from moisture.

P280 wear protective gloves, protective clothing, eye protection and face protection.

P260 Do not breathe dust.

P264 wash skin and clothing thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

CAS# 7440-50-8

P260 Do not breathe dust, fume.

P272 contaminated work clothing should not be allowed out of the workplace.

P280 wear protective gloves, eye protection, face protection.

P264 wash skin and clothing thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 use only outdoors or in a well-ventilated area.

Precautionary Statements - Response

CAS#7429-90-5

P302+ P335+ P334IFON SKIN: Brush off loose particles from skin and immerse in cool water.

P370+ P378 in case of fire: use the appropriate media put out the fire.

P314 Get medical advice if you feel unwell.



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CAS# 7440-50-8

P302+P352 IF ON SKIN: wash with plenty water.
P333 +P313 if skin irritation or rash occurs: Get medical advice.
P321 specific treatment (see additional emergency instructions).
P362+ P364 Take off contaminated clothing and wash it before reuse
P308+ P311 IF exposed or concerned: call a POISON CENTER.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 call a POISON CENTER if you feel unwell.

Eyes

Immediately call a POISON CENTER or doctor
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing

Skin

Call a POISON CENTER or doctor if you feel unwell
Take off contaminated clothing and wash it before reuse
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing
Immediately call a POISON CENTER or doctor

Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

May be harmful if swallowed Very toxic to aquatic life Very toxic to aquatic life with long lasting effects



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Lithium Cobalt Oxide	12190-79-3	28	-	-
Graphite	7782-42-5	20	-	-
Carbon black	1333-86-4	9	-	-
Phosphate(1-), hexafluoro-, lithium	21324-40-3	20	-	-
Copper	7440-50-8	10	-	-
Aluminum foil	7429-90-5	10	-	-
Nickel	7440-02-0	3	-	-

4. FIRST AID MEASURES

Description of first aid measures

General advice

First aid is upon rupture of sealed battery. Show this Safety Data Sheet to the doctor in attendance. Immediate medical attention is required. IF exposed or concerned: Get medical advice/attention.

Inhalation

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 substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention. May cause an allergic skin reaction.

Ingestion

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.



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Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Itching. Rashes. Hives.

Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitization in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

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

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

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous Combustion Products Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Attention! Corrosive material. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other Information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up



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Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

In case of rupture: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Protect from moisture. Keep out of the reach of children. Store away from other materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Lithium Cobalt Oxide (ColiO ₂) 12190-79-3	TWA: 0.02 mg/m ³			
Graphite 7782-42-5	TWA: 2 mg/m ³			
Phosphate(1-), hexafluoro-, lithium 21324-40-3	TWA: 2.5 mg/m ³			
Copper 7440-50-8	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³ TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³
Carbon black 1333-86-4	TWA: 10 mg/m ³	TWA: 1.0 mg/m ³	TWA: 1 mg/m ³	TWA: 10 mg/m ³
Aluminum foil 7429-90-5	TWA: 1.5 mg/m ³	TWA: 0.05 mg/m ³	TWA: 1 mg/m ³	TWA: 1 mg/m ³

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). See section 15 for national exposure control parameters.

Appropriate engineering controls

Engineering controls

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Face protection shield.



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Hand protection

Wear suitable gloves. Impervious gloves.

Skin and body protection

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid
Color	Black
Odor	No information available
Odor Threshold	No information available

Property

pH

Melting / freezing point

Boiling point / boiling range

Flash Point

Evaporation Rate

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit

Lower flammability limit

Vapor pressure

Vapor density

Relative density

Water Solubility

Solubility(ies)

Partition coefficient:

n-octanol/water

Autoignition temperature

Decomposition temperature

Kinematic viscosity

Dynamic viscosity

Other Information

Explosive properties

Oxidizing properties

Softening Point

Molecular Weight

VOC Content (%)

Liquid Density

Bulk Density

Particle Size

Values

No data available

Remarks

None known

None



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Particle Size Distribution

No information available

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Exposure to air or moisture over prolonged periods.
Incompatible materials	Acids. Bases. Oxidizing agent.
Hazardous Decomposition Products	Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information In case of rupture:
Inhalation	Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.
Eye contact	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May be absorbed through the skin in harmful amounts. Harmful in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes 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 cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.



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Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing. Itching. Rashes. Hives.

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 2,109.70 mg/kg
ATEmix (dermal) 1,265.80 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lithium Cobalt Oxide 12190-79-3	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5.05 mg/L (Rat) 4 h
Graphite 7782-42-5	-	-	> 2000 mg/m ³ (Rat) 4 h
Carbon black 1333-86-4	> 9000 mg/kg (Rat)	-	> 10.2 mg/L (Rat) 1 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes burns.

Serious eye damage/eye irritation Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.

Respiratory or skin sensitization May cause sensitization by skin contact.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Lithium Cobalt Oxide (CoLiO ₂) 12190-79-3	A3	Group 2B	Reasonably Anticipated	X
Carbon black 1333-86-4	-	Group 2B	Reasonably Anticipated	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

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.



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STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects. .

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Supplier Trade Secret	-	96h LC50: > 100 mg/L (Danio rerio)	-	-
Supplier Trade Secret	72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: 0.0068 - 0.0156 mg/L (Pimephales promelas) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: = 0.8 mg/L (Cyprinus carpio) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 1.25 mg/L (Lepomis macrochirus) 96h LC50: < 0.3 mg/L (Pimephales promelas)	-	48h EC50: = 0.03 mg/L
Supplier Trade Secret	96h EC50: 0.174 - 0.311 mg/L (Pseudokirchneriella subcapitata) 72h EC50: = 0.18 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 1.3 mg/L (Cyprinus carpio) 96h LC50: = 10.4 mg/L (Cyprinus carpio) 96h LC50: > 100 mg/L (Brachy danio rerio)	-	48h EC50: = 1 mg/L 48h EC50: > 100 mg/L

Persistence and Degradability No information available.

Bioaccumulation There is no data for this product.

Mobility No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.



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14. TRANSPORT INFORMATION

UN Number
-DOT, IMDG, IATA

UN 3480 & UN 3481

Transport information

Rechargeable Lithium-ion Battery Pack (Sample Model: ZN 18650 5200mAh 2P) is tested and has passed in accordance with UN manual of Tests and Criteria, Part III, subsection 38.3.

The goods shall be complied with the requirements of Section IB-II of Packing Instruction 965 or of Section II of Packing Instruction 966 & 967 of 62nd DGR Manual of IATA or special provision 188 of IMDG CODE (Amtd. 39-18).

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport, ensure that the goods will not falling, dropping, and breakage, prevent collapse of cargo piles and wet by rain.

The transportation of primary lithium cells and batteries is regulated by the International Civil Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment:

1. Air shipments must meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations.
2. Meet the requirements for the US Department of Transportation listed in 49 CFR 173.185, 49 CFR 172.102. The transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to the Transportation of Dangerous Goods Act, 1992 (1992, c. 34)

Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "Dangerous Goods" when shipped in accordance with "special provision A45 of IATA-DGR" or "special provision 188 of IMO-IMDG Code".

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 equipment (Including lithium ion polymer batteries)

TDG

Not regulated

DOT

Hazard Class 9
Emergency Response Guide Number 147

MEX

Not regulated

ICAO

Not regulated

IATA

Hazard Class 9

IMDG/IMO

Hazard Class 9
EmS-No. F-A, S-I



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<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

CAS No.	TSCA	IECSC	DSL/NDSL	EINECS/ELINCS/NLP
12190-79-3	Listed	Listed	Listed DSL	Listed
7782-42-5	Listed	Listed	Listed DSL	Listed
24937-79-9	Listed	Listed	Listed DSL	Listed
9003-55-8	Listed	Listed	Listed DSL	Listed
7440-50-8	Listed	Listed	Listed DSL	Listed
7429-90-5	Listed	Listed	Listed DSL	Listed

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

IECSC -Inventory of existing chemical substances in China

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards 1	Flammability 0	Instability 0	Physical and Chemical Properties
<u>HMIS</u>	Health hazards 0	Flammability 0	Physical hazards 0	X

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet