

# Safety Data Sheet (SDS) Report

Applicant: TAIZHOU ZHONGLIAN ELECTRICAL CO.,LTD

No.568, Jingyi Road, Jiaojiang Economic Zone, Taizhou, China.

Sample Description:

The sample information was submitted and identified on client's behalf to be:

Product Name : Rechargeable Li-ion Battery Pack

Physical State : Solid

Data Received : Oct 08, 2019

Data Reviewed : Oct 12, 2019

#### Service Requested:

Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated in accordance with requirements of OSHA HazCom Standard (2012), for details please refer to attached pages.

## Authorized By:

On Behalf Of Regulatory Affairs in Intertek Testing Services Ltd., Shanghai

Anna Wang Regulatory Consultant This report shall not be reproduced except in full, without the written approval of the laboratory.

SDS number:

Issue Date:

P2019100806

2019-10-12

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# **Safety Data Sheet**

# **Rechargeable Li-ion Battery Pack**

### TAIZHOU ZHONGLIAN ELECTRICAL CO.,LTD

Version No:1.0 According to OSHA HazCom Standard (2012) requirements SDS number:**P2019100806** 

Issue Date:12/10/2019 GHS.USA.EN

# SECTION 1 IDENTIFICATION

#### **Product Identifier**

Trouble full file		
Product name	Rechargeable Li-ion Battery Pack	
Proper shipping name	Lithium ion batteries including lithium ion polymer batteries	
Other means of identification	Model: VICTg1S2PNC2600M2601	

### Recommended use of the chemical and restrictions on use

Relevant ic	lentified uses	Air Coolin

## Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Supplier name	TAIZHOU ZHONGLIAN ELECTRICAL CO.,LTD
Address	No.568, Jingyi Road, Jiaojiang Economic Zone, Taizhou, China.
Telephone	+86-576-89088233
Emergency telephone	+86-576-89088233
Email	sales@zolee.cn
Importer name	KLEIN TOOLS, INC
Address	450 Bond St,Lincolnshire, IL, 60069, United States
Telephone	+1-847-821-3305
Email	RGoldmann@kleintools.com

## Emergency phone number

Association / Organisation	KLEIN TOOLS, INC
Emergency telephone numbers	+1-847-821-3305(9:00-17:00)

# **SECTION 2 HAZARD(S) IDENTIFICATION**

### Classification of the substance or mixture

Not considered a Hazardous Substance by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Classified as Dangerous Goods for transport purposes.

Classification	Not Applicable
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#### Label elements

Label ciclions	
Hazard pictogram(s)	Not Applicable
SIGNAL WORD	NOT APPLICABLE

#### Hazard statement(s)

Not Applicable

# Hazard(s) not otherwise classified

Not Applicable

## Supplementary statement(s)

Not Applicable

#### Precautionary statement(s) General

Not Applicable

### Precautionary statement(s) Prevention

Not Applicable

### Precautionary statement(s) Response

Not Applicable

## Precautionary statement(s) Storage

Not Applicable

### Precautionary statement(s) Disposal

Not Applicable

## **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
-	100	Lithium ion batteries

#### **SECTION 4 FIRST-AID MEASURES**

#### Description of first aid measures

Eye Contact	► Generally not applicable.
Skin Contact	► Generally not applicable.
Inhalation	► Generally not applicable.
Ingestion	► Generally not applicable.

#### Most important symptoms and effects, both acute and delayed

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 FIRE-FIGHTING MEASURES**

### **Extinguishing media**

▶ Sand, dry powder extinguishers or other inerts should be used to smother dust fires.

### Special hazards arising from the substrate or mixture

Fire Incompatibility	<ul> <li>Avoid contamination with oxidising age</li> </ul>
Fire incompatibility	<ul> <li>NOTE: May develop pressure in conta</li> </ul>

ents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

ainers; open carefully. Vent periodically.

# Special protective equipment and precautions for fire-fighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Slight hazard when exposed to heat, flame and oxidisers.</li> </ul>
Fire/Explosion Hazard	<ul> <li>▶ Combustible.</li> <li>▶ Slight fire hazard when exposed to heat or flame.</li> <li>Combustion products include:</li> <li>carbon monoxide (CO)</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

# Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Secure load if safe to do so.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel.</li> <li>Clean up all spills immediately.</li> <li>Wear protective clothing, safety glasses, dust mask, gloves.</li> </ul>

### **SECTION 7 HANDLING AND STORAGE**

## Precautions for safe handling

Trecautions for safe nationing	
Safe handling	Limit all unnecessary personal contact.      Wear protective clothing when risk of exposure occurs.
Other information	Store in original containers.     Keep containers securely sealed.     Store away from incompatible materials.

# Conditions for safe storage, including any incompatibilities

Suitable container	PE bag + carton
Storage incompatibility	<ul> <li>WARNING: Avoid or control reaction with peroxides.</li> <li>Keep dry</li> <li>NOTE: May develop pressure in containers; open carefully. Vent periodically.</li> </ul>

### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

## **Control parameters**

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

Not Available

### INGREDIENT DATA

## EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Rechargeable Li-ion Battery Pack	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
Rechargeable Li-ion Battery Pack	Not Available		Not Available	

## **Exposure controls**

Appropriate engineering controls	Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use.  Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment.
Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>No special equipment required due to the physical form of the product.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>No special equipment required due to the physical form of the product.</li> </ul>
Body protection	See Other protection below
Other protection	► Overalls. ► P.V.C.

#### Respiratory protection

Respiratory protection not normally required due to the physical form of the product.

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

Appearance	Solid		
Physical state	Solid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available

Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Flammable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Insoluble	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	Product is considered stable.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 TOXICOLOGICAL INFORMATION**

### Information on toxicological effects

Acute Toxicity	Based on available data, the classification criteria are not met.
Skin Irritation/Corrosion	Based on available data, the classification criteria are not met.
Serious Eye Damage/Irritation	Based on available data, the classification criteria are not met.
Respiratory or Skin sensitisation	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductivity	Based on available data, the classification criteria are not met.
STOT - Single Exposure	Based on available data, the classification criteria are not met.
STOT - Repeated Exposure	Based on available data, the classification criteria are not met.
Aspiration Hazard	Based on available data, the classification criteria are not met.

# **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

Rechargeable Li-ion Battery Pack

Based on available data, the classification criteria are not met.

**DO NOT** discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

# Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

## Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Product / Packaging disposal

- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- ► Consult State Land Waste Management Authority for disposal.
- ▶ **DO NOT** allow wash water from cleaning or process equipment to enter drains.
- ▶ It may be necessary to collect all wash water for treatment before disposal.
- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- ► Consult State Land Waste Authority for disposal.

## **SECTION 14 TRANSPORT INFORMATION**

Marine Pollutant	NO		
Land transport (DOT)			
UN number	3480		
UN proper shipping name	Lithium ion batteries including lithium ion polymer batteries		
Transport hazard class(es)	Class 9 Subrisk Not Applicable		
Packing group	Not Applicable		
Environmental hazard	Not Applicable		
Special precautions for user	Hazard Label 9 Special provisions 422, A54, A100		

### Air transport (ICAO-IATA / DGR)

UN number	3480			
UN proper shipping name	Lithium ion batteries (inc	luding lithium ion polymer batteries)		
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	9 Not Applicable 9F		
Packing group	Not Applicable			
Environmental hazard	Not Applicable	Not Applicable		
Special precautions for user		Qty / Pack Packing Instructions	A88 A99 A154 A164 A183 A201 A206 A213 A331 A334 A802 See 965 See 965 Forbidden Forbidden Forbidden Forbidden	

# Sea transport (IMDG-Code / GGVSee)

UN number	3480		
UN proper shipping name	LITHIUM ION BATTERIES (including lithium ion polymer batteries)		
Transport hazard class(es)	IMDG Class 9 IMDG Subrisk Not Applicable		
Packing group	Not Applicable		
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number Special provisions Limited Quantities	F-A , S-I 188 230 310 348 376 377 384 387	

The article is not subject to other provisions of IMO IMDG  $\,$  Code according to special provision 188

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## **SECTION 15 REGULATORY INFORMATION**

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

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs US - Alaska Limits for Air Contaminants US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs) US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs) US - California Permissible Exposure Limits for Chemical Contaminants US - California Proposition 65 - Carcinogens US - Hawaii Air Contaminant Limits US - Idaho - Limits for Air Contaminants US - Idaho Toxic Air Pollutants Non- Carcinogenic Increments - Occupational Exposure Limits US - Michigan Exposure Limits for Air Contaminants US - Minnesota Permissible Exposure Limits (PELs) US - Oregon Permissible Exposure Limits (Z-1) US - Rhode Island Hazardous Substance List US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants

US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values

US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants

US Chemical Footprint Project - Chemicals of High Concern List

US Clean Air Act - Hazardous Air Pollutants

US CWA (Clean Water Act) - Priority Pollutants

US CWA (Clean Water Act) - Toxic Pollutants

US EPCRA Section 313 Chemical List US National Toxicology Program (NTP) 14th Report Part A Known to be Human Carcinogens

US National Toxicology Program (NTP) 14th Report Part B. Reasonably Anticipated to be a Human Carcinogen

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

US TSCA New Chemical Exposure Limits (NCEL)

US TSCA Section 12(b) - List of Chemical Substances Subject to Export Notification Requirements

US TSCA Section 5(a)(2) - Significant New Use Rules (SNURs)

#### **Federal Regulations**

Contaminants

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air

US - Washington Permissible exposure limits of air contaminants

#### SECTION 311/312 HAZARD CATEGORIES

Flammable (Gases, Aerosols, Liquids, or Solids)		
Gas under pressure		
Explosive	No	
Self-heating	No	
Pyrophoric (Liquid or Solid)	No	
Pyrophoric Gas	No	
Corrosive to metal	No	
Oxidizer (Liquid, Solid or Gas)	No	
Organic Peroxide	No	
Self-reactive	No	
In contact with water emits flammable gas	No	
Combustible Dust	No	
Carcinogenicity	No	
Acute toxicity (any route of exposure)	No	
Reproductive toxicity	No	
Skin Corrosion or Irritation		
Respiratory or Skin Sensitization		
Serious eye damage or eye irritation		
Specific target organ toxicity (single or repeated exposure)		
Aspiration Hazard		
Germ cell mutagenicity		
Simple Asphyxiant		
Hazards Not Otherwise Classified		

# US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

#### State Regulations

## US. CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

#### US - CALIFORNIA PROPOSITION 65 - CARCINOGENS: LISTED SUBSTANCE

Nickel compounds Listed

#### **SECTION 16 OTHER INFORMATION**

## Other information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

#### **Definitions and abbreviations**

PC — TWA: Permissible Concentration-Time Weighted Average PC — STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer
ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors

BEI: Biological Exposure Index