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SAFETY DATA SHEET

Prepared for: ShenZhen Zehong Trade Co., Ltd

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Section 1-Identification of the substance/mixture and of the company/undertaking

1.1 Product identification

Product Name: DC 12V 80W Soldering Iron Li-ion Rechargeable Cordless Soldering Iron Automatic
Dormant Welding Tool (with lithium battery)

Product model: TO-DB12G-US

Trademark: N/A

Specification: Rated voltage: DC12V Rated capacity: 80W Model and specification: WN18650-2000mah

1.2 Product recommendations and restricted uses

Product determine uses: /

1.3 Manufacturer Information

Manufacturer's name: Shenzhen Jialexin Technology Co., Ltd.

Manufacturer's address: Room 212, 2nd Floor, Building 2, Lishang Factory, No. 339, Huaqing
Avenue, Tsinghua Community, Longhua Street, Longhua District, Shenzhen

Telephone: 18666213339

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E-mail: xiliqx@126.com

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Section 2- Hazards Identification

Hazard Classification: See section 14.

Primary Route(s) of Exposure: Eye, skin contact, ingestion.

Health Hazard: The batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's Hazard of rupture, fire, heat, leakage of internal components, which could cause casualty loss. Abuses including but not limited to the following cases: charged for long time, short circuited, put into fire, whacked with hard object, punctured with acute object, crushed, and broken.

Section 3- Composition/Information on Ingredient

Chemical Name	CAS No.	Concentration(%)
Lithium Cobalt Oxide LiCoO_2	12190-79-3	36.6%
Copper	7440-50-8	10.1%
Graphite	7782-42-5	19.7
Aluminum foil	7429-90-5	5.9%
Lithium manganese (i, iv) oxide LiMn_2O_4	12057-17-9	9.2%
Electrolyte	N/A	15%
Other	N/A	3.5%

Section 4- First Aid Measures

Skin exposure: Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

Eyes touch: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Inhalation: If inhaled, quickly leave the site to fresh air. If you stop breathing, perform artificial respiration. If breathing is difficult, supply oxygen.

Ingestion: If swallowed, wash out mouth with water provided person is conscious Call a physician.

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Section 5- Fire Fighting Measures

Characteristics of Hazard: Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150°C (302°F)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

Hazardous Combustion Products: CO, CO₂, HF, phosphorus fluoride.

Extinguishing method and extinguishing agent: Copious amounts of cold water are an effective extinguishing medium for lithium batteries. Don't use warm or hot water. Don't use Halon type extinguishing material. May use dry powder, sand, earth.

Fire protection measures: The Firemen should put on antigas masks and full fire-fighting suits.

Section 6- Accidental Release Measures

Protective measures, protective equipment and emergency procedures for workers: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Environmental protection measures: Do not allow material to be released to the environment without proper governmental permits.

Steps to be taken in case material is spilled or released and Waste disposal method: Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water. All waste must refer to the United Nations, the national and local regulations for disposal.

Section 7- Handling and Storage Measures

Precautions for safe handling: Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Ground containers when transferring liquid to prevent static accumulation and discharge.

Information about fire and explosion protection: Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

Conditions for safe storage, including any incompatibilities: Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

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Section 8- Exposure Controls/Personal Protection

Occupational exposure limit: no relevant details information.

Engineering Controls: no engineering controls are required for handling batteries that have not been damaged. Personal protective equipments for damaged batteries should include chemical resistant gloves and safety glasses.

Respiratory Protection: Use suitable respirator when high concentrations are present.

Hand protection: Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery.

Eye protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

Section 9- Chemical and Physical Properties

Appearance	Blue	Form	Cylindrical
Odour	If leaking, smells of medical ether	pH	Not applicable
Flash point (°C)	Not applicable	Flammability	Not applicable
Relative density	Not applicable	Solubility (water)	Not applicable
Solubility (other)	Solubility (other)		

Section 10- Stability and Reactivity

Chemical stability: Stable in normal circumstances.

Possibility of hazardous reactions: Data not available

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.

Incompatibilities: Oxidizing agents, acid, base.

Hazardous Combustible Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

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Section 11- Toxicological information

Signs & symptoms: None, unless battery ruptures.

In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.

Inhalation: Lung irritant.

Skin contact: Skin irritant.

Eye contact: Eye irritant.

Medical conditions generally aggravated by exposure: In the event of exposure to internal contents, moderate to server irritation, burning and dryness of the skin may occur, Target organs nerves, liver and kidneys.

Section 12- Ecological Information

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Other Hazardous: Will not effect environmental evidently.

Section 13- Disposal Considerations

Waste Treatment: Recycle or dispose of in accordance with government, state & local regulations.

Attention for Waste Treatment: Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling.

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Section 14 – Transport Information

Label for conveyance: Lithium Battery Label, or Lithium Battery Class 9 Label, or Cargo Aircraft only.

UN Number: 3481

Proper Shipping name: Lithium Ion Battery (Including Lithium Polymer Battery) , Lithium Ion Battery Packed With Equipment, Lithium Ion Battery Contained In Equipment.

Packaging Group: SECTION II

Marine pollutant: No

Transport fashion: By air, by sea, by railway, by road.

Hazardous classification:

The package of battery should be complied with the requirements of Packing Instruction 965/966/967 of IATA DGR 63rd Edition for transportation. The package of battery should be complied with the requirements of 188 of IMDG (inc Amdt.40-20) or the <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (22nd). The batteries should be securely packed and protected against short-circuits. Examine whether the package of the containers are integrate and tighten closed before transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles. Don't put the goods together with oxidizer and chief food chemicals. The transport vehicle and ship must be cleaned and sterilized otherwise it is not allowed to assemble articles. During transport, the vehicle should prevent exposure, rain and high temperature. For stopovers, the vehicle should be away from fire and heat sources. When transported by sea, the assemble place should keep away from bedroom and kitchen, and isolated form the engine room, power and fire source. Under the condition of Road Transportation, the driver should drive in accordance with regulated route, don't stop over in the residential area and congested area. Forbid to use wooden, cement for bulk transport.

Note: In addition, to be permitted in transport each lithium cell and battery types must have passed the applicable tests set out in Subsection 38.3 of the UN Manual of Tests and Criteria.

Section 15- Regulatory information

Regulatory information:

Recommendations on the transport of dangerous goods-model Regulations 22nd, IATA dangerous goods regulations 63rd, International Maritime Dangerous Goods Code (inc Amdt.40-20), European Agreement concerning the International Carriage of Dangerous Goods by Road (2021), Regulations concerning the International Carriage of Dangerous Goods by Rail (2021)

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Section 16- Other Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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