

WUHAN FANSO TECHNOLOGY CO., LTD.

According to UN GHS (the 8th revised edition)

Material Safety Data Sheet (MSDS)

| Product Name: | Li-SoCl ₂ Battery | |
|---------------|------------------------------|--|
| Model No.: | | |

Written by: Linda

(Linda)

Inspected by:

(Jose)



ISSUED BY: TUV-Laboratory (China) Service of Testing Co., Ltd.

Jan. 2022 PRINT

| Item No.: | 20A028A307 |
|----------------|-----------------------|
| MSDS No.: | E27.210.111.004.WFT-2 |
| Initial Date: | Jan. 11, 2021 |
| Revision Date: | Jan. 14, 2022 |



Version: 2.0

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Section 1

Product and Company Identification

Product identification

| Product Name: | Li-SoCl ₂ Battery |
|--------------------|------------------------------|
| Model No.: | f |
| Trademark: | FANSO |
| CAS No.: | Not applicable |
| EC No.: | Not applicable |
| Molecular formula: | Not applicable |

Relevant identified uses of the substance or mixture and uses advised against

| Identified uses: | Used for electronic instrument |
|-----------------------|--------------------------------|
| Uses advised against: | No special note |

Details of the applicant, supplier

| Company name: | WUHAN FANSO TECHNOLOGY CO., LTD. |
|---------------|--|
| Address: | 1 Sitai Wu Lu, Sitai Industrial Park, Yongfeng Street, Hanyang District, Wuhan |
| Post code: | |
| Telephone: | +86-18627884463 |
| Fax: | |
| E-mail: | |

Emergency telephone number

Emergency telephone: | +86-19947659915

Section 2

Hazard Description

For the battery, chemical materials are stored in a hermetically sealed case, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, there is no physical danger of ignition or explosion and chemical danger. However, do not open, short-circuit, squeeze, burn, disassemble, expose to flame, mix different models, different chemical properties or different types of batteries. The battery case will be breached at the extreme, hazardous materials may be released.

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Hazard description

Physical and chemical hazards

Non-flammable, no special explosive characteristics.

Health hazards

| Inhalation: | The steam of the electrolyte has an anesthesia action and stimulates a |
|---------------|--|
| | respiratory tract. |
| Ingestion: | Abdominal pain, vomiting. |
| Skin contact: | The steam of the electrolyte stimulates a skin. The electrolyte skin contact |
| | causes a sore and stimulation on the skin. |
| Eye contact: | The steam of the electrolyte stimulates eyes. The electrolyte eye contact |
| | causes a sore and stimulation on the eye. Especially, substance that causes |
| | a strong inflammation of the eyes is contained. |

Environmental hazards

Please refer to Section 12 of MSDS.

Section 3

Composition/Ingredient Data



| Component(s) | Content, % | CAS No. |
|---------------------|------------|-----------|
| Thionyl Chloride | 40.0-45.0 | 7719-09-7 |
| Litium | 4.5-5.5 | 7439-93-2 |
| Carbon | 3.0-4.0 | 7782-42-5 |
| Aluminum Chloride | 1.0-5.0 | 7446-70-0 |
| Tetrafluoroethylene | 0.02 | 9002-84-0 |

Section 4

First Aid Measures

Description of first aid measures

General advice:

Show this material safety data sheet to the doctor in attendance.

After receiving the first-aid measure required, consult a physician if necessary.

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| | Remove contaminated clothing and shoes. | |
|---------------|---|--|
| Skin contact: | Wash off with mild soap and plenty of water. | |
| | If skin irritation occurs or persists, consult a physician immediately. | |
| | Check for and remove any contact lenses, occasionally lifting the upper and | |
| | lower eyelids. Immediately flush eyes with running water, disappear until the | |
| Evec contact: | chemical residues so far. | |
| Eyes contact: | Provide a readily-accessible eyewash facility and quick-drench safety shower. | |
| | Do not rubbing eyes with hand. | |
| | If eye irritation occurs or persists, consult a physician immediately. | |
| | Move exposed person to fresh air. Maintain an open airway. Keep person | |
| | warm and at rest. | |
| Inhalation: | If breathing is irregular, provide artificial respiration or oxygen by trained | |
| | personnel. | |
| | Get medical attention if adverse health effects persist or are severe. | |
| | Wash out mouth with water. Move exposed person to fresh air. Keep person | |
| | warm and at rest. | |
| | If material has been swallowed and the exposed person is conscious, give | |
| | small quantities of water to drink. | |
| Ingontion. | Stop if the exposed person feels sick as vomiting may be dangerous. Do not | |
| Ingestion: | induce vomiting unless directed to do so by medical personnel. | |
| | If vomiting occurs, the head should be kept low so that vomit does not enter the | |
| | lungs. | |
| | Get medical attention if adverse health effects persist or are severe. Never give | |
| | anything by mouth to an unconscious person. | |
| | | |

Most important acute and delayed symptoms/effects

The most important known symptoms and effects are described in section 2 and/or in section 11.

Immediate/special treatment

- Continue with first aid measures. Treat symptomatically and supportively.
- Symptoms may be delayed.

Section 5

Firefighting Measures

Extinguishing agent

Suitable/Unsuitable extinguishing agents:

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In case of fire, water flooded ground fire. If the battery is burning, water may not be extinguished, but can use water cooling adjacent batteries so as to control

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> the spread of fire. The preferred medium for small fire is carbon dioxide, dry powder, or foam extinguishing agent, but for the lithium battery is burning may be no use, the battery will burn until complete combustion. In fact, all lithium batteries can be controlled by water. However, when using water to produce hydrogen gas may be mixed with air to form explosive mixture. LITH-X (graphite powder) or copper powder fire extinguishers, sand, dry, powdered dolomite or soda can be used as smothering agent

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released: Carbon oxides, metal oxides, etc.

Fire precautions and measures

- Firefighters must wear self-contained breathing apparatus, wear full body fire suit, fire extinguishing in the upwind.
- As far as possible will be transferred to empty containers from the scene.
- 3 Keep the fire water spray containers cooling, until the end of fire.
- If the containers in the fire ground have been color, must be evacuated immediately. 4
- 5 Isolated accident scene, prohibit access.
- Receiving and processing of fire, to prevent environmental pollution. 6

Accidental Release Measures Section 6

Personal precautions, protective equipment and emergency procedures

- No action shall be taken involving any personal risk or without suitable training.
- Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. 2
- 3 Do not touch or walk through spilt material, avoid slipping.
- 4 Avoid breathing steam.
- Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 5
- 6 Put on appropriate personal protective equipment (see section 8).

Environmental precautions

- Prevent further leakage or spillage if safe to do so.
- Discharge into the environment must be avoided.

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Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

- Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth.
- 2 Contaminated absorbent material may pose the same hazard as the spilt product.
- Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Section 7

Handling and Storage

Precautions for safe handling

- 1 Don't uses or leave the battery near a heat source as fire or heater.
- If the battery gives off an odor, generates heat, becomes discolored or deformed, or in any way appear abnormal during use or storage, immediately remove it from the device and stop using.
- Don't put the battery excessive vibration, avoid short circuit, however accidental short circuit for a short period of time will not have a serious impact on the battery.
- Long-term short circuit can make battery loss of energy, generate a lot of heat burn skin, and even cause a fire or explosion.
- Chaos of the battery in bulk in containers, coins, metal accessories, metal workbench, covered by or metal belt and so on battery device can be used for assembly is the source of cause a short-circuit.
- 6 Transport or storage battery should have effective measures of prevent short circuit.
- 7 Don't disassembly or damage to the battery.
- 8 Keep away from heat/sparks/open flames/hot surfaces.
- 9 Handling carefully to prevent damage the packaging and container.
- Equipped with corresponding varieties and number of fire equipment and spill contingency processing equipment.

Precautions for storage

Stored in a cool, dry and ventilated place, may cause the battery performance loss under high temperature, leakage, rust.

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- 2 Don't expose the battery under the open flame, stored away from water and strong oxidizing agent.
- Equipped with corresponding varieties and number of fire equipment and spill contingency processing equipment.
- 4 Keep out of reach of children and pets.

Section 8

Exposure Controls/Personal Protection

Control parameters

Occupational Exposure limit values

| Components CAS No. | Country/region | Occupational exposure limits (8h) | | Occupational exposure limits (Short time) | |
|-------------------------------|----------------|-----------------------------------|-------------------|---|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |
| | USA-NIOSH | | 931 | 1 | 5 |
| | Korea | :: | 9 — 9 | 0.2 | 1 |
| Thionyl Chloride 7719-09-7 | New Zealand | · - | ? ? | 1 | 4.9 |
| | Ireland | | - | 0.5 | 2.4 |
| | Denmark | 1 | 5 | 1 | 5 |
| | Australia | - | (-) | 1 | 4.9 |

Engineering controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

| General requirements: | |
|-------------------------|--|
| Respiratory protection: | Respiratory protective equipment is not necessary if used as intended. Respiratory protection may be required under exceptional circumstances when excessive air contamination exists. If the batteries leaks must try to keep the air circulation, avoid operating in a narrow place. |
| Eye protection: | Not necessary if used as intended, wear goggles/safety glasses giving complete eye protection if the battery damaged or leaking. |

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| Skin and body | Not necessary if used as intended, wear appropriate clothing and boots to |
|-------------------|---|
| protection: | minimize skin exposure if the battery damaged or leaking. |
| | Not necessary if used as intended, wear appropriate protective gloves if the battery damaged or leaking. |
| Hands protection: | Check protective gloves prior to each use for their proper condition. |
| | The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. |

Section 9

Physical and Chemical Properties

Information on basic physical and chemical properties

| Appearance and character: | Red/white column shape, solid |
|---|-------------------------------|
| Odor: | Odorless |
| Flash point (°C): | No data/Not applicable |
| Melting point/freezing point (°C): | No data/Not applicable |
| Initial boiling point and boiling range (°C): | No data/Not applicable |
| Evaporation rate: | No data/Not applicable |
| Steam pressure (20°C): | No data/Not applicable |
| Relative density (water=1): | No data/Not applicable |
| Partition coefficient: n-octanol/water: | No data/Not applicable |
| Decomposition temperature (°C): | No data/Not applicable |
| pH value: | No data/Not applicable |
| Auto ignition temperature (°C): | No data/Not applicable |
| Explosion limit [% (v/v)]: | Non explosives |
| Relative vapor density(air=1): | No data/Not applicable |

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| Solubility: | Insoluble in water |
|----------------------------|---|
| Flammability (solid, gas): | Non-flammable |
| Oxidizing properties: | The substance does not belong to oxidizing substances |

Section 10 Stability and Reactivity

Stability and Reactivity

| Stability: | The product is chemically stable. | | | |
|-----------------------------------|---|--|--|--|
| Reactivity: | Stable under recommended storage and handling conditions. | | | |
| Incompatible materials: | Strong oxidizing agents, strong acids and strong bases. | | | |
| Conditions to avoid: | In contrast to the nature of the material, overheating, exposed to damp air or water, mechanical vibration and power abuse. | | | |
| Hazardous decomposition products: | Under normal conditions of storage and use, hazardous decomposition products should not be produced. | | | |

Section 11

Toxicological Information

Acute toxicity

| Component(s) | CAS No. | LD50(Oral) | LD50(Dermal) | LC50(Inhalation) |
|-------------------|-----------|------------------------------------|--------------------|------------------|
| Aluminum Chloride | 7446-70-0 | Rat: 3450mg/kg Mouse: 1130mg/kg | Rabbit: >2000mg/kg | No data |
| Thionyl Chloride | 7719-09-7 | No data | No data | Rat: 500ppm/1H |

| Skin corrosion/irritation: | Causes severe skin burns (Category 1B). | | | |
|----------------------------|---|--|--|--|
| Eye corrosion/irritation: | Causes serious eye damage (Category 1). | | | |
| Respiratory sensitization: | These products are not known to cause human respiratory sensitization. | | | |
| Skin sensitization: | These products are not known to cause skin sensitization. | | | |
| Germ cell mutagenicity: | According to the existing data, the product is not classified. | | | |
| Carcinogenicity: | No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. | | | |

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| Reproductive toxicity: | 1,2-dimethoxyethane: Reproductive toxicity (Category 1B). |
|---|--|
| Specific target organ toxicity - single exposure: | According to the existing data, the product is not classified. |
| Specific target organ | |
| toxicity - repeated | According to the existing data, the product is not classified. |
| exposure: | |
| Aspiration hazard: | According to the existing data, the product is not classified. |
| Additional reproductive toxicity hazards: | According to the existing data, the product is not classified. |

Section 12 Ecological Information

Acute aquatic toxicity

| Component(s) | CAS No. | LC ₅₀ Fish(96h) | EC ₅₀ Crustaceans (48h) | ErC ₅₀ Algae | |
|----------------------|-----------|----------------------------|------------------------------------|-------------------------|--|
| Aluminum Chloride | 7446-70-0 | 6.17mg/L | 1.9mg/L | 0.515 (96h) | |

Persistence and degradability

Persistence: No data.

Bioaccumulative potential

Bioaccumulation: No data.

Mobility in soil

Mobility: No data.

Other adverse effects

Do not allow material to be released to the environment without proper governmental permits.

Section 13

Disposal Considerations

Waste disposal

Before disposal should refer to the relevant national and local laws and Residual waste: regulation.

The generation of waste should be avoided or minimized wherever possible.

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| | Recommended transfer to a suitable container and arrange for collection by specialized disposal company if recycling is not feasible. |
|--------------------------|--|
| Contaminated packaging: | The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. |
| Disposal considerations: | Dispose of container and unused contents in accordance with national and local relevant regulations laws. |

Section 14 Transport Information

Transport Information

| UN No.: | UN3090 or UN3091 |
|----------------------|---|
| | Lithium Metal Batteries(including Lithium Primary Batteries) or; Lithium Metal |
| UN Transport name: | Batteries Contained In Equipment(including Lithium Primary Batteries) or |
| ON Hallsport Hallie. | Lithium Metal Batteries Packed With Equip (including Lithium Primary |
| | Batteries) |
| | IMDG: 9 |
| | IATA: 9 |
| Hazard class(es): | ADR/RID: 9 |
| | Depending on their lithium metal content, some single cells and small |
| | multi-cell battery packs may be non-assigned to Class 9. |
| Packaging group: | N/A |
| Environmental hazard | |
| Marine pollutant | No |
| (Yes/No): | |
| | The transportation of primary lithium cells and batteries is regulated by the |
| | International Air Transport Association (According to Section II/Section 1B of |
| | PACKING INSTRUCTION 968, or Section II of PACKING INSTRUCTION |
| | 969~970 of IATA DGR 63 rd Edition for transportation), International Civil |
| ICAO/ATA: | Aviation Organization, International Maritime Dangerous Goods Code and the |
| | US Department of Transportation. |
| | The batteries must meet the following criteria for shipment: |
| | Meet the requirements for the US Department of Transportation listed in 49 |
| | CFR 173.185. |

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| | The transport of primary lithium batteries is prohibited aboard passenger | |
|------------|--|--|
| | aircraft. | |
| IMDG CODE: | The batteries are not restricted to IMDG Code 2020 Edition (Amdt 40-20) | |
| | according to special provision 188. | |
| | The batteries are not subject to the provisions of United Nations Economic | |
| ADR/AND: | Commission for Europe (UNECE) ADR/ADN if they meet the requirements of | |
| | special provision 188 of Chapter 3.3. Applicable as from 1 January 2019. | |

Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport.

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:

Reference to the local, national, US, EU, CA and international regulations.

| CAS No. | TSCA | EINECS | DSL | IECSC | NZIoC | PICCS | KECI | AICS |
|-----------|------|----------|-----|----------|----------|----------|----------|------|
| 7439-93-2 | ~ | ~ | ~ | ~ | √ | ~ | ~ | ~ |
| 7782-42-5 | ~ | ~ | ~ | ~ | ✓ | ~ | √ | ~ |
| 9002-84-0 | ~ | ✓ | ~ | ~ | ~ | ~ | ~ | ~ |
| 7719-09-7 | ~ | ✓ | ~ | ~ | ~ | ✓ | ~ | ~ |
| 7446-70-0 | ~ | ✓ | ~ | ✓ | ~ | ~ | ~ | ~ |

| TSCA: | United States Toxic Substances Control Act Inventory |
|---|--|
| EINECS: European Inventory of Existing Commercial Chemical Substances | |
| DSL: | Canadian Domestic Substances List |
| IECSC: | China Inventory of Existing Chemical Substances |
| PICCS: | Philippines Inventory of Chemicals and Chemical Substances |
| NZIoC: | New Zealand Inventory of Chemicals |
| KECI: | Existing and Evaluated Chemical Substances |
| AICS: | List of existing chemical substances in Australia |

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★Note:

" " Indicates that the substance included in the regulations

"x" That no data or included in the regulations

Section 16

Other Information

Abbreviations or phrases

| ACGIH: | American Conference of Governmental Industrial Hygienists | | | | |
|--------------------|---|--|--|--|--|
| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road | | | | |
| CAS: | Chemical Abstracts Service | | | | |
| CLP: | Classification, labeling and packaging | | | | |
| EC: | Council of Europe | | | | |
| ECHA: | European Chemicals Agency | | | | |
| EINECS: | European Inventory of Existing commercial Chemical Substances | | | | |
| GHS: | Globally Harmonized System of Classification and Labelling of Chemicals | | | | |
| IARC: | International Agency for Research on Cancer | | | | |
| IATA: | International Air Transport Association | | | | |
| RID: | Regulation for rail International transportation of Dangerous goods | | | | |
| ICAO: | International Civil Aviation Organization | | | | |
| IMDG: | International Maritime Dangerous Goods Code | | | | |
| IC ₅₀ : | Inhibitory Concern Triton 50% | | | | |
| LC ₅₀ : | Lethal Concentration 50% | | | | |
| LD ₅₀ : | Median Lethal Dose 50% | | | | |
| MAPROL: | International Convention for the Prevention of Pollution from Ships | | | | |
| REACH: | REGULATION concerning the Registration, Evaluation, Authorization and | | | | |
| | Restriction of Chemicals | | | | |
| STEL: | Short Term Exposure Limit | | | | |
| TWA: | Time Weighted Average | | | | |
| MAC: | Maximum Allowable Concentration | | | | |
| OSHA: | Occupational Safety and Health Administration | | | | |
| NIOSH: | National Institute for Occupational Safety and Health | | | | |
| | | | | | |

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Product Name: Li-SoCl₂ Battery Initial Date: Jan. 11, 2021 Version: 2.0

MSDS No.: E27.210.111.004.WFT-2 Revision Date: Jan. 14, 2022 Item No.: 20A028A307

| TLV: | Threshold Limit Value |
|------------|---|
| TLV-TWA: | Threshold Limit Value-Time Weighted Average |
| TLV- STEL: | Threshold Limit Value-Short term Exposure Limit |
| PC-TWA: | Permissible Concentration-Time Weighted Average |
| PC-STEL: | Permissible Concentration-Short Term Exposure Limit |
| PEL: | Permissible Exposure Limit |
| OELs: | Occupational Exposure Limits |

Reference

| 1 | IARC |
|---|------|
| | |

- 2 OECD: The Global Portal to Information on Chemical Substances
- 3 U.S. Department of Transportation: ERG
- 4 Germany GESTIS-database on hazard substance
- 5 CAMEO Chemicals
- 6 NLM: ChemIDplus
- 7 EPA: Integrated Risk Information System
- 8 IPCS: The International Chemical Safety Cards (ICSC)

Disclaimer

The above information is believed to be correct but we can not guarantee the absolute universality and accuracy and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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END OF REPORT

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