

Shenzhen Anbotek Compliance Laboratory Limited Page 1 of 10 Report No. SZABB180328003-02

Shenzhen Anbotek Compliance Laboratory Limited

SDS REPORT

Report No.....: SZABB180328003-02

Client.....: Elexa Consumer Products Inc.

Address...... Suite333, 2275 Half Day Road, Bannockburn, IL 60015,USA

Manufacturer.....: Guangxi Ramway New Energy Corp.,Ltd

Address...... No.9,Xingyu Road,High-tech Zone,Wuzhou

543000, Guangxi, China

Written by : Lucy 2erg

Approved by :

Position : Authorized signatory

Date(s) of Report : 2018-04-09 to 2018-04-10



Shenzhen Anbotek Compliance Laboratory Limited Page 2 of 10 Report No. SZABB180328003-02

SAFETY DATA SHEET

According to HCS-2012 APPENDIX D TO § 1910.1200 (Version: 1.0/EN)

Section 1. Identification

(a) Product identifier

Product name:Li-SOC12

(b) Other means of identification

Product description: Model: ER18505

Nominal Voltage: 3.6V Rated Capacity: 4000mAh

Watt-hour: 14.4Wh

Weight: 32g

(c) Recommended use of the chemical and restrictions on use

Recommended use: Li-SOC12

Restriction on use: No information available.

(d) Details of the supplier of the product

Company name(China): Guangxi Ramway New Energy Corp.,Ltd

Address: No.9, Xingyu Road, High-tech Zone, Wuzhou 543000, Guangxi, China

Telephone No.: 18977407530 Email: ruiyi156@163.com

Section 2. Hazard(s) identification

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) This product is an article which is a sealed battery and as such does not require an MSDS per the OSHA hazard communication standard unless ruptured. The hazards indicated are for a ruptured battery.

| Skin corrosion/irritation | Category 2 |
|--|------------|
| Serious eye damage/eye irritation | Category 2 |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 2 |
| Specific target organ toxicity (repeated exposure) | Category 1 |

GHS Label elements, including precautionary statements



Shenzhen Anbotek Compliance Laboratory Limited Page 3 of 10 Report No. SZABB180328003-02

Emergency Overview

Signal word

Danger

Hazard Statements

Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of causing cancer





This product is an article which contains a chemical substance. Safety information is given for exposure to the article as sold. 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.

Appearance Silver

Physical State Solid containing liquid

Odor None

Precautionary Statements - 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

Wear protective gloves

Do not breathe dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product

Wear eye/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

If eye irritation persists: Get medical advice/attention

Skin

IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity



Shenzhen Anbotek Compliance Laboratory Limited Page 4 of 10 Report No. SZABB180328003-02

37.3% of the mixture consists of ingredient(s) of unknown toxicity

Other information

Very toxic to aquatic life with long lasting effects

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

Interactions with Other Chemicals

No information available.

Section 3. Composition/Information on Ingredients

(a) Mixtures information

| Chemical Name | Concentration% | CAS No. |
|---|-----------------|------------|
| Lithium(Li) | 8 | 7439-93-2 |
| Acetylene black(C) | 9 | 1333-86-4 |
| Thionyl chloride(socl ₂) | 70 | 7719-09-7 |
| Lithium aluminum tetrachloride (LiAlCl ₄) | 10 | 14024-11-4 |
| Nickel(Ni) | ak anoli Anboli | 7440-02-0 |

Section 4. First-Aid Measures

(a) Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medicaladvice / attention if you feel unwell.

Skin contact: Remove contaminated clothes and rinse the skin with plenty of water. Getmedical advice /attention if you feel unwell.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy todo. Continue rinsing. Get medical advice / attention if you feel unwell.

Ingestion: Have victim drink 60 to 240 mL (2-8 oz.) of water. and DO NOT induce vomiting. Get medicalaid.

(b) Most important symptoms/effects, acute and delayed

Contact with internal components may cause allergic skin sensitization (rash) and irritate eyes, skin, nose, throat,

respiratory system. Cobalt and Cobalt compounds are considered to be possible human carcinogen(s).

(c) Immediate medical attention and special treatment

No information available.



Shenzhen Anbotek Compliance Laboratory Limited Page 5 of 10 Report No. SZABB180328003-02

Section 5. Fire-Fighting Measures

(a) Extinguishing media

Suitable extinguishing media: Use foam, dry powder or dry sand, CO2 as appropriate. Unsuitable extinguishing media: No information available.

(b) Special hazards arising from the chemical

Under fire conditions, batteries may burst and release hazardous decomposition products when exposed to a firesituation. This could result in the release of flammable or corrosive materials. Hazardous combustion products: CO,CO2, Metal oxides, Irritating fumes.

(c) Special protective equipment and precautions for fire-fighters

Firefighters must wear fire resistant protective equipment and appropriate breathing apparatus. The staff must equipwith filtermask (full mask) or isolated breathing apparatus. The staff must wear the clothes which can defense the fire and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon aspossible. Spray water on the containers in the fireplace to keep them cool until finish extinguishment.

Section 6. Accidental Release Measures

(a) Personal precautions, protective equipment and emergency procedures

If the Li-SOCl2 material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area, dispose the case after the batteries cool and vapors dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors.

(b) Environmental Precautions

Prevent material from contaminating soil and from entering sewers or waterways.

(c) Methods and materials for containment and cleaning up

If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic linedcontainer. Dispose off according to the local law and rules. Avoid leached substances to get into the earth, canalization or waters.

Section 7. Handling and Storage

(a) Precautions for safe handling

Always follow the warning information on the batteries and in the manuals of devices. Only use the recommended battery types. Keep batteries away from children. For devices to be used by children, the battery casing should be protected against unauthorized access. Unpacked batteries shall not lie about in bulk. In case of battery changealways replace all batteries by new ones of identical type and brand. Do not swallow batteries. Do not throwbatteries into water. Do



Shenzhen Anbotek Compliance Laboratory Limited Page 6 of 10 Report No. SZABB180328003-02

notthrow batteries into fire. Avoid deep discharge. Do not short-circuit batteries Userecommended charging time and current.

(b) Conditions for safe storage, including any incompatibilities

- 1.Batteries should be separated from other materials and stored in a noncombustible, well ventilated, sprinkler-protected structure with sufficient clearance between walls and battery stacks. Do not place batteries near heating equipment, nor expose to direct sunlight for long periods.
- 2.Do not store batteries above 35° C or below -20° C. Store batteries in a cool (about $20\pm5^{\circ}$ C) in a long time, dry and ventilated area that is subject to little temperature change. Elevated temperatures can result in reduced battery cycle life. Battery exposure to temperatures in excess of 60° C will result in the battery venting flammable liquid and gases.
- 3. Keep batteries in original package until use and do not jumble them.

Section 8. Exposure Controls/Personal Protection

(a)Engineering Controls

Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keepaway from heat and open flame. Store in a cool, dry place.

(b) Personal Protective Equipment

Respiratory Protection: Not necessary under normal conditions. Skin and body Protection: Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery.

Hand protection: Wear neoprene or natural rubber material 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.

(c) Other Protective Equipment

Have a safety shower and eye wash fountain readily available in the immediate work area.

(d) Hygiene Measures

Do not eat, drink, or smoke in work area. Maintain good housekeeping.

Section 9. Physical and Chemical Properties

- (a)AppearanceSolid
- (b)Odor Monotony
- (c)Odor threshold Not available.
- (d)pHNot available.



Shenzhen Anbotek Compliance Laboratory Limited Page 7 of 10 Report No. SZABB180328003-02

- (e)Melting point/freezing pointNot available.
- (f)Initial boiling point and boiling rangeNot available.
- (g)Flash poinNot applicable.
- (h)Evaporation rate Not applicable.
- (i)Flammability Non flammable.
- (j)Upper/lower flammability or explosive limitsNot available.
- (k) Vapor pressure Not applicable.
- (1) Vapor density Not available.
- (m)Relative densityNot available.
- (n)Solubility(ies)Insoluble in water.
- (o)Partition coefficient: n-octanol/waterNot available.
- (p)Auto-ignition temperature 130 °C
- (q)Decomposition temperatureNot available.
- (r) Viscosity Not available.

Section 10. Stability and Reactivity

(a) Reactivity

Stable under recommended storage and handling conditions.

(b) Chemical stability

Stable under normal conditions.

(c) Possibility of hazardous reactions

When heated above 150°C the risk of rupture occurs. Due to special safety construction, rupture implies contrelease of pressure without ignition.

(d) Conditions to avoid

Do not subject Li-SOCl2 to mechanical shock. Keep away from open flames, high temperature.

(e) Incompatible materials

Strong oxidizer, strong acid.

(f) Hazardous decomposition products

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

Section 11. Toxicological Information

(a) Information on the likely routes of exposure

Inhalation: Inhalation of a large number of vapors or fumes released due to heat may cause respiratory.

Ingestion: Ingestion of battery contents may cause mouth, throat and intestinal burns and



Shenzhen Anbotek Compliance Laboratory Limited Page 8 of 10 Report No. SZABB180328003-02

damage.

Skin contact: Contact with battery electrolyte may cause burns and skin irritation.

Eye contact: Contact with battery electrolyte may cause burns. Eye damage is possible.

Under normal conditions (during charge and discharge) release of ingredients does not occur. If accidental releaseoccurs see information in section 2, and 4. Swallowing of a battery can be harmful. Call the local Poison ControlCentre for advice and follow-up.

narmful. Call the local Poison ControlCentre for advice and follow

(b) Information on toxicological characteristics

Acute toxicity: No data available.

Skin corrosion/irritation: The liquid in the battery irritates.

Serious eye damage/irritation: The liquid in the battery irritates.

Respiratory sensitization: The liquid in the battery may cause sensitization to some person.

skin sensitization: The liquid in the battery may cause sensitization to some person.

Carcinogenicity: Cobalt and Cobalt compounds are considered to be possible

humancarcinogen(s).

Germ Cell Mutagenicity: No data available. Reproductive Toxicity: No data available. STOT-Single Exposure: No data available. STOT-Repeated Exposure: No data available.

Aspiration Hazard: No data available.

Section 12. Ecological Information

(a) Ecotoxicity

Water hazard class 1(Self-assessment): slightly hazardous for water.

(b) Persistence and Degradability

No information available.

(c) Bioaccumulative potential

No information available.

(d) Mobility in soil

No information available.

(e) Other adverse effects

No information available.

Section 13. Disposal Considerations

(a) Safe handling and methods of disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.



Shenzhen Anbotek Compliance Laboratory Limited Page 9 of 10 Report No. SZABB180328003-02

Product disposal recommendation: Observe local, state and federal laws and regulations. Packaging disposal recommendation: Be aware discarded batteries may cause fire, tape the battery terminals toinsulate them. Don't disassembly the battery. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local, state and federal laws and regulations. The potential effects on the environment and human health of the substances used in batteries and accumulators; the desirability of not disposing of waste batteries and accumulators as unsorted municipal waste and ofparticipating in their separate collection so as to facilitate treatment and recycling.

Section 14. Transport Information

According to PACKING INSTRUCTION 968~970 of IATA DGR 59th Edition for transportation, the special provision 230 of IMDG (inc Amdt 38-16). 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 should be cleaned and sterilized before transport. 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 from 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.

(a)UN number

3090&3091

(b) UN Proper shipping name

Lithium metal batteries (including lithium alloy batteries) or; Lithium metal batteries contained in equipment or Lithium Metal Batteries packed with equipment (including lithium alloy batteries)

(c) Transport hazard class(es)

O

(d) Packing Instruction (if applicable)

968 IA, 969 I, 970 I

(e) Marine pollutant (Yes/No)

No

(f) Transport in bulk (according to Annex Hof MARPOL 73/78 and the IBC Code)

No information available.

(g) Special precautions

No information available.



Shenzhen Anbotek Compliance Laboratory Limited Page 10 of 10 Report No. SZABB180328003-02

Section 15. Regulatory Information

OSHA hazard communication standard (29 CFR 1910.1200)

Hazardous V Non-hazardous

Section 16. Other Information

(a) Preparation and revision information

Date of previous revision: Not applicable. Date of this revision: 2018-01-01

Revision summary: The first New SDS

(b) Abbreviations and acronyms

TSCA:Toxic Substances Control Act, The American chemical inventory.

DSL: Domestic Substances List

EINECS: European Inventory of Existing Commercial chemical Substances

ENCS: Japanese Existing and New Chemical Substances

ECL: Existing Chemicals List, the Korean chemical inventory

IECSC:Inventory of existing chemical substances in China.

(c) Disclaimer

Because all of our batteries are defined as "articles", they are exempted from the requirements of the HazardCommunication Standard. The information in this SDS is provided all the relevant data fully and truly. However, theinformation is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared toprovide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these specialcases, we do not assume responsibility for the damage.

| End of the SDS | d |
|----------------|---|
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