

Page 1 of 11

SDS REPORT

Client Name : HENGDIAN GROUP DMEGC MAGNETICS CO., LTD

Address Hengdian Industrial Area, Dongyang City, Zhejiang Province, China

Product Name : Li-ion Battery

Date : Oct. 25, 2019

Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited

Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel:(86)755-26066126 Fax:(86)755-26066021 Email:service@anbotek.com

Code: AB-BAT-61-b



Page 2 of 11

SAFETY DATA SHEET

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

1. Identification

Sample name:	Li-ion Battery
Battery model:	INR18650-26E
Rating:	Nominal Voltage: 3.65V Rated Capacity: 2600mAh Weight: 47.4g
Manufacture:	HENGDIAN GROUP DMEGC MAGNETICS CO., LTD
Address:	Hengdian Industrial Area, Dongyang City, Zhejiang Province, China
Factory:	HENGDIAN GROUP DMEGC MAGNETICS CO., LTD
Address:	Hengdian Industrial Area, Dongyang City, Zhejiang Province, China
Telephone no:	0755-23774750
E-mail:	54459134@qq.com
Date of received:	Oct. 24, 2019
Date of report:	Oct. 25, 2019



Jely Written by: Targ

Shenzhen Anbotek Compliance Laboratory Limited

Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel:(86)755-26066126 Fax:(86)755-26066021 Email:service@anbotek.com

Code: AB-BAT-61-b



Page 3 of 11

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

Emergency Overview

Signal	word
- B	

Danger

Hazard Statements

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

Suspected of causing cancer

Causes damage to organs through prolonged or repeated exposures



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.

			e:h	
Ap	pea	rance	: 201	/er

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

Shenzhen Anbotek Compliance Laboratory Limited

Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District Shenzhen, Guangdong, China Tel:(86)755-26066126 Fax:(86)755-26066021 Email:service@anbotek.com Code: AB-BAT-61-a





Page 4 of 11

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

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.

3. Composition/Information on Ingredients

Percent of Content	CAS No.		
29 29	113066-89-0		
And 17 And	7782-42-5		
hoter And And Ant	1333-86-4		
Anbore 10 botek	623-53-0		
Anboliek 9 th nbolek	21324-40-3		
Anbounde 16 Anborek	7440-50-8		
And And Anbote	7440-02-0		
both Ann 11otek And	7429-90-5		
	29 17 4 10 9 16		

Shenzhen Anbotek Compliance Laboratory Limited

Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel:(86)755-26066126 Fax:(86)755-26066021 Email:service@anbotek.com Code: AB-BAT-61-a Hotline 400-003-0500



Page 5 of 11

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.

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 thefire 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.

6. Accidental Release Measures

(a) Personal precautions, protective equipment and emergency procedures

If theRechargeable Li-ion Battery material is released, remove personnel from area until fumes dissipate. Provide maximumventilation to clear out hazardous gases. The preferred response is to leave the area, dispose the case after thebatteries cool and

Shenzhen Anbotek Compliance Laboratory Limited

Code: AB-BAT-61-a

Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District Shenzhen, Guangdong, China Tel:(86)755-26066126 Fax:(86)755-26066021 Email:service@anbotek.com



Page 6 of 11

vapors dissipate. Providemaximum 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.

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 recommendedbattery types. Keep batteries away from children. For devices to be used by children, the battery casing should beprotected 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 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

If the Rechargeable Li-ion Battery is subject to storage for such a long term as more than 3 months, it is recommended torecharge theRechargeable Li-ion Battery periodically. Operating temperature: Charge:0°C~45°C. Discharge: -10°C~50°C. And recommended at -10°C~45°C for 1 month storage, at -10~35°C for 3 months storage. The capacity recoveryrate in the delivery state (50% capacity of fully charged) after storage is assumed to be 80% or more. The voltage for along time storage shall be 3.7V~4.2V range. Do not storage Rechargeable Li-ion Battery haphazardly in a box or drawerwhere they may short-circuit each other or be short-circuited by other metal objects. Keep out of reach of children.

8. Handling and Storage

(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 ifhandling an open or leaking battery.

Hand protection: Wear neoprene or natural rubber material gloves if handling an open or leaking battery.

Shenzhen Anbotek Compliance Laboratory Limited

Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel:(86)755-26066126 Fax:(86)755-26066021 Email:service@anbotek.com

Code: AB-BAT-61-a



Page 7 of 11

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.

9. Physical and Chemical Properties

- (a)Appearance
- (b)Odor
- (c)Odor threshold
- (d)pH
- (e)Melting point/freezing point
- (f)Initial boiling point and boiling range
- (g)Flash poin
- (h)Evaporation rate
- (i)Flammability
- (j)Upper/lower flammability or explosive limits
- (k)Vapor pressure
- (I)Vapor density
- (m)Relative density
- (n)Solubility(ies)
- (o)Partition coefficient: n-octanol/water
- (p)Auto-ignition temperature
- (q)Decomposition temperature
- (r)Viscosity

Solid Monotony Not available. 130°C Not available. Not available.

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.

Shenzhen Anbotek Compliance Laboratory Limited

Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel:(86)755-26066126 Fax:(86)755-26066021 Email:service@anbotek.com

Code: AB-BAT-61-a



Page 8 of 11

(d) Conditions to avoid

Do not subjectRechargeable Li-ion Battery 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.

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 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 release occurs see information in section 2, and 4. Swallowing of a battery can be harmful. Call the local Poison Control Centre for advice and follow-up.

(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 human carcinogen(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.

Shenzhen Anbotek Compliance Laboratory Limited

Code: AB-BAT-61-a Hotline 400-003-0500

www.anbotek.com

Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel:(86)755-26066126 Fax:(86)755-26066021 Email:service@anbotek.com



Page 9 of 11

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.

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.

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 to insulate 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 of participating in their separate collection so as to facilitate treatment and recycling.

14. Transport Information

According to PACKING INSTRUCTION 965 ~ 967 of IATA DGR 60th Edition for transportation, the special provision 188 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

Shenzhen Anbotek Compliance Laboratory Limited

Code: AB-BAT-61-a

Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel:(86)755-26066126 Fax:(86)755-26066021 Email:service@anbotek.com



Page 10 of 11

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
 - 3480&3481
- (b) UN Proper shipping name

LITHIUM ION BATTERIES (including lithium ion polymer batteries) or; LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries)

- (c) Transport hazard class(es)
- (d) Packing Instruction (if applicable) 965 II/ IB, 966 II, 967 II
- (e) Marine pollutant (Yes/No) No
- (f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code) No information available.
- (g) Special precautions No information available.

15. Regulatory Information

OSHA hazard communication standard (29 CFR 1910.1200)

Hazardous

Non-hazardous

Date of this revision: 2019-01-01

16. Other Information

(a) Preparation and revision information

Date of previous revision: Not applicable.

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: apanese Existing and New Chemical Substances

ECL: Existing Chemicals List, the Korean chemical inventory

IECSC: Inventory of existing chemical substances in China.

Shenzhen Anbotek Compliance Laboratory Limited

Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel:(86)755-26066126 Fax:(86)755-26066021 Email:service@anbotek.com

Code: AB-BAT-61-a

Page 11 of 11

(c) Disclaimer

Because all of our batteries are defined as "articles", they are exempted from the requirements of the Hazard Communication Standard. The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide 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 special cases, we do not assume responsibility for the damage.

-- End of report -

Shenzhen Anbotek Compliance Laboratory Limited

Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel:(86)755-26066126 Fax:(86)755-26066021 Email:service@anbotek.com Code: AB-BAT-61-a