

# Safety Data Sheet

According to HCS-2012 APPENDIX D TO §1910.1200

Version: 1.0/EN

Product name: Lead Acid (Non-Spillable) Battery

Revision date: 20-Mar-2018

Printing date: 20-Mar-2018

## 1. Identification

### *(a) Product identifier*

Product name: Lead Acid (Non-Spillable) Battery

### *(b) Other means of identification*

Product description: Model: 12V9Ah  
Nominal Voltage:12.0V

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

Recommended use: Lead Acid (Non-Spillable) Battery.  
Restriction on use: No information available.

### *(d) Details of the supplier of the product*

Company name Sunluxe International Limited  
Address: Unit 26-28, 6/F., One Island South, 2 Heung Yip Road, Wong Chuk Hang, Hong Kong  
E-mail: smclinfo@sunluxe.vn  
Telephone: 852-227-54568

### *(e) Emergency phone number*

852-227-54568

## 2. Hazard(s) identification

### *(a) Classification of the chemical*

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.

|  |                           |
|--|---------------------------|
| Acute toxicity - Oral                              | Category 4                |
| Acute toxicity - Inhalation (Gases)                | Category 4                |
| Acute toxicity - Inhalation (Vapors)               | Category 4                |
| Acute toxicity - Inhalation (Dusts/Mists)          | Category 3                |
| Skin corrosion/irritation                          | Category 1 Sub-category A |
| Serious eye damage/eye irritation                  | Category 1                |
| Carcinogenicity                                    | Category 1A               |
| Reproductive Toxicity                              | Category 1A               |
| Specific target organ toxicity (repeated exposure) | Category 2                |

### *(b) GHS Label elements, including precautionary statements*

#### Emergency Overview

**Signal word**

**Danger**

#### **Hazard Statements**

Harmful if swallowed  
Harmful in contact with skin  
Causes severe skin burns and eye damage  
May cause an allergic skin reaction  
Causes serious eye damage  
May cause cancer  
Causes damage to organs through prolonged or repeated exposure

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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.

## 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

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

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

## Precautionary Statements – Response

Specific measures (see .? on this label)

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

Immediately call a POISON CENTER or doctor/physician

### Skin

IF ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Immediately call a POISON CENTER or doctor/physician

**Ingestion:** IF SWALLOWED: Call a POISON CENTER or doctor/physician.

if you feel unwell, Rinse mouth. Don't induce vomiting

## Precautionary Statements – Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements – Disposal:** Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC):** Not applicable

### (c) Other information

Very toxic to aquatic life with long lasting effects;

### (d) Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

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## 3. Composition/information on ingredients

(a) Mixtures information

| Chemical name             | CAS No.    | Concentration% |
|---------------------------|------------|----------------|
| Lead                      | 7439-92-1  | 18.5           |
| Lead peroxide             | 1309-60-0  | 40.2           |
| Lead sulfate              | 7446-14-2  | 12.4           |
| Sulfuric acid             | 7664-93-9  | 24.3           |
| Glass, oxide              | 65997-17-3 | 2.2            |
| Tin                       | 7440-31-5  | 0.6            |
| Calcium                   | 7440-70-2  | 0.3            |
| Styrene-Butadiene polymer | 9003-55-8  | 1.5            |

## 4. First-aid measures

### (a) Description of first aid measures

|                                     |   |
|-------------------------------------|---|
| <b>General Advice</b>               | This is a battery. In case of rupture: Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.  |
| Eye contact:                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.   |
| Skin contact:                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Seek immediate medical attention/advice.  |
| Inhalation:                         | Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get medical attention immediately if symptoms occur. |
| Ingestion:                          | Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately   |
| Self-protection of the first aider: | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8).   |

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

|                                     |  |
|-------------------------------------|--|
| Most important symptoms and effects | Burning sensation. Coughing and/ or wheezing. Difficulty in breathing. Lead poisoning is characterized by a metallic taste in the mouth, loss of appetite indigestion, nausea, vomiting, constipation, sleep disturbances and overall weakness. Severe exposures can lead to shock, circulatory collapse, and death. |
|-------------------------------------|--|

### (c) Indication of any immediate medical attention and special treatment needed

|                    |   |
|--------------------|---|
| Notes to Physician | Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible |
|--------------------|---|

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perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

## 5. Fire-fighting measures

### *(a) Extinguishing media*

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: CAUTION: Use of water spray when fighting fire may be inefficient.

### *(b) Special hazards arising from the chemical*

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

**Uniform Fire Code** Corrosive: Acid-Liquid  
Toxic: Solid

### **Hazardous Combustion Products**

Carbon oxides.

### **Explosion Data**

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** No.

### *(c) Protective equipment and precautions for firefighters*

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental release measures

### *(a) Personal precautions, protective equipment and emergency procedures*

Personal Precautions Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not breathe vapor or mist.

Other Information Refer to protective measures listed in Sections 7 and 8.

### *(b) Environmental Precautions*

Environmental Precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

### *(c) Methods and materials for containment and cleaning up*

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

## 7. Handling and storage

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## (a) Precautions for safe handling

In case of rupture: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Do not breathe vapor or mist.

## (b) Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

Incompatible Products Acids. Bases. Oxidizing agent.

## 8. Exposure controls/personal protection

### (a) Control parameters

Exposure Guidelines

| Chemical Name              | ACGIH TLV  | OSHA PEL  | NIOSH IDLH  |
|----------------------------|--|---|---|
| Lead<br>7439-92-1          | TWA: 0.05 mg/m <sup>3</sup>  | TWA: 50 µg/m <sup>3</sup> TWA: 50 µg/m <sup>3</sup> Pb<br>Action Level: 30 µg/m <sup>3</sup><br>Poison, See 29 CFR 1910.1025<br>Action Level: 30 µg/m <sup>3</sup> Pb<br>Poison, See 29 CFR 1910.1025 | IDLH: 100 mg/m <sup>3</sup><br>TWA: 0.050 mg/m <sup>3</sup> |
| Sulfuric acid<br>7664-93-9 | TWA: 0.2 mg/m <sup>3</sup> thoracic fraction   | TWA: 1 mg/m <sup>3</sup><br>(vacated) TWA: 1 mg/m <sup>3</sup>  | IDLH: 15 mg/m <sup>3</sup><br>TWA: 1 mg/m <sup>3</sup>      |
| Glass, oxide<br>65997-17-3 | TWA: 1 fiber/cm <sup>3</sup> respirable fibers: length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination<br>TWA: 5 mg/m <sup>3</sup> inhalable fraction | -   |   |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

### (b) Appropriate engineering controls

Engineering Measures Showers  
Eyewash stations  
Ventilation systems

### (c) Individual protection measures, such as personal protective equipment

Eye/Face Protection Face protection shield.  
Skin and Body Protection Wear protective gloves and protective clothing. Long sleeved clothing. Chemical

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|                        |  |
|------------------------|--|
| Respiratory Protection | resistant apron. Impervious gloves.<br>No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.  |
| Hygiene Measures       | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all contaminated protective equipment before re-use. Do not breathe vapor or mist. |

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## 9. Physical and chemical properties

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|  |                     |
|--|---------------------|
| (a) Appearance                                   | solid               |
| (b) Odor   | Odorless            |
| (c) Odor threshold                               | Not available.      |
| (d) pH   | Not available.      |
| (e) Melting point/freezing point                 | Not available.      |
| (f) Initial boiling point and boiling range      | Not available.      |
| (g) Flash point                                  | Not applicable.     |
| (h) Evaporation rate                             | Not applicable.     |
| (i) Flammability                                 | Non flammable.      |
| (j) Upper/lower flammability or explosive limits | Not available.      |
| (k) Vapor pressure                               | Not applicable.     |
| (l) Vapor density                                | Not available.      |
| (m) Relative density                             | Not available.      |
| (n) Solubility(ies)                              | Insoluble in water. |
| (o) Partition coefficient: n-octanol/water       | Not available.      |
| (p) Auto-ignition temperature                    | Not available.      |
| (q) Decomposition temperature                    | Not available.      |
| (r) Viscosity                                    | Not available.      |

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## 10. Stability and reactivity

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### **(a) Reactivity**

No data available.

### **(b) Chemical stability**

Stable under recommended storage conditions.

### **(c) Possibility of hazardous reactions**

None under normal processing.

### **(d) Conditions to avoid**

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Exposure to air or moisture over prolonged periods. Excessive heat.

**(e) Incompatible materials**

Acids. Bases. Oxidizing agent.

**(f) Hazardous decomposition products**

Carbon oxides.

## 11. Toxicological information

**(a) Information on the likely routes of exposure**

**Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

In case of rupture:

**Inhalation:**

Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Toxic by inhalation.

**Ingestion:**

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed.

**Skin contact:**

Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.

**Eye contact:**

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes.

**Component Information**

| Chemical Name              | Oral LD50            | Dermal LD50 | Inhalation LC50                     |
|----------------------------|----------------------|-------------|-------------------------------------|
| Sulfuric acid<br>7664-93-9 | = 2140 mg/kg ( Rat ) | -           | = 510 mg/m <sup>3</sup> ( Rat ) 2 h |

**(b) Information on toxicological characteristics**

**Symptoms**

Erythema (skin redness). Burning. May cause blindness. Coughing and/ or

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wheezing. Difficulty in breathing.

**(C) Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name              | ACGIH | IARC     | NTP                    | OSHA |
|----------------------------|-------|----------|------------------------|------|
| Lead<br>7439-92-1          | A3    | Group 2A | Reasonably Anticipated | X    |
| Sulfuric acid<br>7664-93-9 | A2    | Group 1  | Known                  | X    |
| Glass, oxide<br>65997-17-3 |       | Group 3  |                        |      |

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**NTP (National Toxicology Program)**

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

Reproductive Toxicity Contains a known or suspected reproductive toxin. Product is or contains a chemical which is a known or suspected reproductive hazard.

Developmental Toxicity Contains ingredients that have suspected developmental hazards.

STOT - single exposure No information available

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).

Chronic Toxicity No known effect based on information supplied. Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Effects from this product caused by acute exposure may cause permanent damage to target organs and/or may cause chronic conditions. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin. Possible risk of irreversible effects. Avoid repeated



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exposure. Prolonged exposure may cause chronic effects. May cause adverse effects on the bone marrow and blood-forming system. Lead compounds may be absorbed by ingestion, by inhalation and through the skin. Lead may damage kidney function, the blood forming system and the reproductive system.

Target Organ Effects      Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Systemic Toxicity. Reproductive System. Blood. Central Nervous System (CNS). Gingival Tissue. Kidney. Teeth. Cardiovascular system. Hematopoietic system. Immune system. May damage the unborn child.

Aspiration Hazard      No information available.

## 12. Ecological information

### (a) Ecotoxicity

Very toxic to aquatic life with long lasting effects.

| Chemical Name              | Toxicity to Algae | Toxicity to Fish  | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|----------------------------|-------------------|---|----------------------------|----------------------------|
| Lead<br>7439-92-1          |                   | 96h LC50: = 0.44 mg/L (Cyprinus carpio) 96h LC50: = 1.17 mg/L (Oncorhynchus mykiss) 96h LC50: = 1.32 mg/L (Oncorhynchus mykiss) |                            | 48h EC50: = 600 µg/L       |
| Sulfuric acid<br>7664-93-9 |                   | 96h LC50: > 500 mg/L (Brachydanio rerio)  |                            | 24h EC50: = 29 mg/L        |

### (b) Persistence and Degradability

No information available.

### (c) Bioaccumulative potential

No information available.

### (d) Other adverse effects

No information available.

## 13. Disposal considerations

### (a) Waste treatment methods

Disposal methods      This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging      Dispose of contents/containers in accordance with local regulations

| Chemical Name     | RCRA                                      | RCRA - Basis for Listing   | RCRA - D Series Wastes      | RCRA - U Series Wastes |
|-------------------|---|--|-----------------------------|------------------------|
| Lead<br>7439-92-1 | (hazardous constituent - no waste number) | Included in waste streams: F035, F037, F038, F039, K002, K003, K005, K046, K048, K049, K051, K052, K061, K062, | = 5.0 mg/L regulatory level |                        |

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|  |  |   |  |  |
|--|--|---|--|--|
|  |  | K064, K065, K066, K069,<br>K086, K100, K176 |  |  |
|--|--|---|--|--|

California Hazardous Waste 792  
Codes

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name              | California Hazardous Waste |
|----------------------------|----------------------------|
| Lead<br>7439-92-1          | Toxic                      |
| Sulfuric acid<br>7664-93-9 | Toxic<br>Corrosive         |

## 14. Transport information

|                             |               |
|-----------------------------|---------------|
| <b>DOT</b>                  | NOT REGULATED |
| <b>Proper Shipping Name</b> | NON REGULATED |
| <b>Hazard Class</b>         | N/A           |
| <b>TDG</b>                  | Not regulated |
| <b>MEX</b>                  | Not regulated |
| <b>ICAO</b>                 | Not regulated |
| <b>IATA</b>                 | Not regulated |
| <b>Proper Shipping Name</b> | NON REGULATED |
| <b>Hazard Class</b>         | N/A           |
| <b>IMDG/IMO</b>             | Not regulated |
| <b>Hazard Class</b>         | N/A           |
| <b>RID</b>                  | Not regulated |
| <b>ADR</b>                  | Not regulated |
| <b>ADN</b>                  | Not regulated |

## 15. Regulatory information

### (a) Safety, health and environmental regulations specific for the product in question

| CAS No.    | USA<br>TSCA | EU<br>EINECS | Japan<br>ENCS | Korea<br>ECL | China<br>IECSC | Canada<br>DSL |
|------------|-------------|--------------|---------------|--------------|----------------|---------------|
| 7439-92-1  | Listed      | Listed       | Listed        | Listed       | Listed         | Listed        |
| 1309-60-0  | Listed      | Not listed   | Listed        | Listed       | Listed         | Listed        |
| 7446-14-2  | Listed      | Listed       | Listed        | Listed       | Listed         | Listed        |
| 7664-93-9  | Listed      | Not listed   | Listed        | Listed       | Listed         | Listed        |
| 65997-17-3 | Listed      | Listed       | Not listed    | Listed       | Listed         | Not listed    |
| 7440-31-5  | Listed      | Not listed   | Listed        | Listed       | Listed         | Not listed    |
| 7440-70-2  | Listed      | Listed       | Listed        | Listed       | Listed         | Listed        |
| 9003-55-8  | Listed      | Not listed   | Listed        | Listed       | Listed         | Listed        |

## 16. Other information, including date of preparation or last revision

### (a) Preparation and revision information

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Date of previous revision: Not applicable.

Date of this revision: 20-Mar-2018

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 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 the SDS -----