MSDS Report

Sample Description & Model
Portable solar generator S360

Applicant
Shenzhen Sbase Electronics Technology Co., Ltd

Address
2/F., B Building, DajiaHao Square, Xin’an Street,
Yu’an 2nd Road, Bajian District, Shenzhen,
GuangDong, P. R. China
Material Safety Data Sheet
Reference to ST/SG/AC.10/30/Rev.5 (GHS)

Section 1 - Chemical Product and Company Identification

Chemical product identification

Sample Description: Portable solar generator
Sample Model: S360
Recommended Uses: Sale
Restrictions on use: N/A
Manufacturer name: Shenzhen Sbase Electronics Technology Co., Ltd
Address: DajaHao Square, Xin’an Street, Yu’an 2nd Road, Bao’an District, Shenzhen, GuangDong, P. R. China
Phone number: 0755-26016321
FAX: 0755-61104042
E-mail: data@cnsbase.net
Emergency phone number: 18118761786

Section 2 - Hazards Identification

Emergency overview: N/A
Classification according to GHS
Not a dangerous substance according to GHS.

Label elements
Hazard pictogram(s): No data available
Signal word: No data available
Hazard statement(s): No data available

Precautionary statement(s):
Prevention: No data available
Response: No data available
Storage: No data available
Disposal: No data available

Other hazards
Physical and chemical hazards: See Section 10
Human health hazards: See Section 11
Environmental hazards: See Section 12

Section 3 – Composition/Information on Ingredients

Chemical characterization: Mixture
### Section 4 - First Aid Measures

**Description of first aid measures**

**General information**: No special measures required.

**After eye contact**
Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

**After skin contact**
Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

**After inhalation**
Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

**After swallowing**
Do not induce vomiting. Get medical attention.

**Personal protective equipment for first-aid responders**: No data available.

**Most important symptoms/effects, acute and delayed**: No data available.

**Indication of immediate medical attention and special treatment needed**: No data available.

### Section 5 - Fire Fighting Measures

**Suitable extinguishing media**:
Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO2.
Unsuitable extinguishing media:
No data available.

Specific Hazards arising from the chemical:
Special hazards arising from the substance or mixture
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.

Specific protective actions for fire-fighters:

Section 6 - Accidental Release Measures

Personal precautions:
Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Protective equipment:
No data available.

Emergency procedures:
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.

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

Methods and materials for containment and cleaning up:
All waste must refer to the United Nations, the national and local regulations for disposal.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Section 7 - Handling and Storage

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.
Information about storage in one common storage facility
Keep away from heat, avoiding the long time of sunlight.

Further information about storage conditions
Keep container tightly sealed.

Specific and use
No data available.

---

Section 8 - Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>12190-79-3</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>TLV-TWA 3.5mg/m³</td>
<td>REL-TWA 3.5mg/m³</td>
<td>PEL-TWA 3.5mg/m³</td>
</tr>
<tr>
<td>21324-40-3</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>24937-79-9</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>9003-55-8</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>96-49-1</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>616-38-6</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>7429-90-5</td>
<td>TLV-TWA 10mg/m³</td>
<td>REL-TWA 2mg/m³</td>
<td>PEL-TWA 5mg/m³</td>
</tr>
<tr>
<td></td>
<td>TLV-TWA 5mg/m³</td>
<td>REL-TWA 5mg/m³</td>
<td>PEL-TWA 15mg/m³</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>TLV-TWA 0.2mg/m³</td>
<td>REL-TWA 1mg/m³</td>
<td>PEL-TWA 0.1mg/m³</td>
</tr>
<tr>
<td></td>
<td>TLV-TWA 1mg/m³</td>
<td>REL-TWA 0.1mg/m³</td>
<td>PEL-TWA 1mg/m³</td>
</tr>
</tbody>
</table>

Appropriate engineering controls:
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.

Personal Protective Equipment

Respiratory protection: Wear suitable protective mask in order to reduce the respiratory system. A large number of leakage, wear chemical protective clothing, including self-contained breathing apparatus.

Hand Protection: Wear appropriate protective gloves to reduce skin contact.

Eyes Protection: Wear safety goggles or eye protection combined with respiratory protection.

Skin and Body Protection: Working environment required, wear suitable protective clothing to minimize contact with skin. The type of protective equipment must be according to the concentration and the content of certain hazardous substances in the workplace.

---

Section 9 - Physical and Chemical Properties
Information on basic physical and chemical properties

Colour: Black
Physical State: Cuboid.
Odour: Not available.
Odour threshold: Not available.
pH: Not available.
Melting point/freezing point: Not available.
Initial boiling point and boiling range: Not available.
Flash Point: Not available.
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Explosion Limits (vol% in air): Not available.
Vapour pressure, kPa at 20°C: Not available.
Vapor density: Not available.
Density/Relative density (water = 1): Not available.
Solubility(ies): Not available.
Partition coefficient: n-octanol/water: Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: Not available.
Other information:
Voltage 3.7V
Electric capacity 42000mAh
Electric Energy 155Wh

Section 10 - Stability and Reactivity

Reactivity: No data available.
Chemical stability: Stable.
Possibility of hazardous reactions: No data available.
Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.
Incompatibilities materials: Oxidizing agents, acid, base.
Hazardous decomposition products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

Section 11 - Toxicological Information

Acute Toxicity:

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>LC50/LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>12190-79-3</td>
<td>No data available.</td>
</tr>
<tr>
<td>CAS Number</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>LD50 Rat (oral): 15400mg/kg</td>
</tr>
<tr>
<td>21324-40-3</td>
<td>LD50 Rat (oral): 10g/kg</td>
</tr>
<tr>
<td>24937-79-9</td>
<td>No data available.</td>
</tr>
<tr>
<td>9003-55-8</td>
<td>No data available.</td>
</tr>
<tr>
<td>96-49-1</td>
<td>LD50 Rat (oral): 6400-12800mg/kg; LC50 Rat (Inhalation: Vapours) ≥140 mg/L</td>
</tr>
<tr>
<td>616-38-6</td>
<td>No data available.</td>
</tr>
<tr>
<td>7429-90-5</td>
<td>No data available.</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation:** No data available.

**Serious eye damage/irritation:** No data available.

**Respiratory or Skin sensitization:** No data available.

**Germ Cell mutagenicity:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Specific target organ toxicity-Single exposure:** No data available.

**Specific target organ toxicity-Repeated exposure:** No data available.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** No data available.

**Eye:** No data available.

**Skin:** No data available.

**Ingestion:** No data available.

**Inhalation:** No data available.

---

**Section 12 - Ecological Information**

**Ecological Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

**Other adverse effects:** No data available.

---

**Section 13 - Disposal Considerations**

**Disposal methods:**

**Recommendation:**
Consult state, local or national regulations to ensure proper disposal.

**Uncleaned packaging**
**Recommendation:** Disposal must be made according to official regulations.

### Section 14 - Transport Information

**Transport information:**

According to the packing instruction 965–967 of IATA DGR 58th Edition for transportation, or the special provision 188 of IMDG (37-14) or the «Recommendations On The Transport Of Dangerous Goods-Model Regulations» (19th).

Separate batteries to prevent short-circuiting, and they should be packed in strong package during transport. Lithium cell or battery should incorporate a safety venting device or be designed to prevent a violent rupture under normal transport conditions. Keep away from high temperature and open flames.

**Note:** Batteries weight in the package < 5kg (By air, Batteries packed with equipment).

**Note:** Batteries weight in the package < 5kg (By air, Batteries installed in equipment).

**Transport Fashion:** By air, by sea, by railway, by road.

### Section 15 - Regulatory Information

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>TSCA</th>
<th>IECSC</th>
<th>DSL/NDSL</th>
<th>EINECS/ELINCS/NLP</th>
</tr>
</thead>
<tbody>
<tr>
<td>12190-79-3</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed DSL</td>
<td>Listed</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed DSL</td>
<td>Listed</td>
</tr>
<tr>
<td>21324-40-3</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed DSL</td>
<td>Listed</td>
</tr>
<tr>
<td>24937-79-9</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed DSL</td>
<td>Listed</td>
</tr>
<tr>
<td>9003-55-8</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed DSL</td>
<td>Listed</td>
</tr>
<tr>
<td>96-49-1</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed DSL</td>
<td>Listed</td>
</tr>
<tr>
<td>616-38-6</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed DSL</td>
<td>Listed</td>
</tr>
<tr>
<td>7429-90-5</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed DSL</td>
<td>Listed</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed DSL</td>
<td>Listed</td>
</tr>
</tbody>
</table>

### Section 16 - Other Information

**Issue Time:** 2017-06-09

**Issue Department:** Technical department

**Modification record:**

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above
named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other Information:
CAS: (Chemical Abstracts Service);
EC: (European Commission);
ACGIH: (American Conference of Governmental Industrial Hygienists);
NIOSH: (US National Institute for Occupational Safety and Health);
OSHA: (US Occupational Safety and Health);
TLV: (Threshold Limit Value)
TWA: (Time Weighted Average);
STEL: (Short Term Exposure Limit);
PEL: (Permissible Exposure Level);
REL: (Recommended Exposure Limit);
PC-STEL: (Permissible concentration-time weighted average);
PC-TWA: (Permissible concentration-short time exposure limit);
LC50: (Lethal concentration, 50 percent kill);
LD50: (Lethal dose, 50 percent kill);
IARC: (International Agency for Research on Cancer);
EC50: (Median effective concentration);
BCF: (Bioconcentration Factor);
BOD: (Biochemical oxygen demand);
NOEC: (No observed effect concentration);
NTP: (US National Toxicology Program);
RTECS: (Registry of Toxic Effects of Chemical Substances);
IATA: (International Air Transport Association);
IMDG: (International Maritime Dangerous Goods);
TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations);
TOC: (Total Organic Carbon);
TSCA: (Toxic Substances Control Act of USA);
DSL: (the Domestic Substances List of Canada);
NDSL: (the Non-domestic Substances List of Canada)

***End of report***