# SAFETY DATA SHEET

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## 1. IDENTIFICATION

<table>
<thead>
<tr>
<th>Product identifier</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name</strong></td>
<td>Omnergy CR Type Lithium Coin Cell</td>
</tr>
<tr>
<td><strong>Other means of identification</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Product Code(s)</strong></td>
<td>1199222</td>
</tr>
</tbody>
</table>

### Recommended use of the chemical and restrictions on use

<table>
<thead>
<tr>
<th><strong>Recommended Use</strong></th>
<th>Lithium Primary/Metal Batteries</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Restrictions on use</strong></td>
<td>No information available</td>
</tr>
</tbody>
</table>

### Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th><strong>Supplier Identification</strong></th>
<th>Power Glory Tech (Shenzhen) Co., Ltd.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address</strong></td>
<td>Dong Keng Industrial Zone, Dong Keng Village, Gongming Town, Shenzhen</td>
</tr>
<tr>
<td></td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>CN</td>
</tr>
<tr>
<td><strong>Telephone</strong></td>
<td>Phone:755-2754-3060</td>
</tr>
<tr>
<td></td>
<td>Fax:+86 755 2754-3062</td>
</tr>
<tr>
<td><strong>E-mail</strong></td>
<td><a href="mailto:jerry@omnergy.com.hk">jerry@omnergy.com.hk</a></td>
</tr>
</tbody>
</table>

### Emergency telephone number

| **Company Emergency Phone Number** | +852 6093-2825 |

## 2. HAZARDS IDENTIFICATION

### Classification

<table>
<thead>
<tr>
<th><strong>Acute toxicity - Oral</strong></th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute toxicity - Inhalation (Vapors)</strong></td>
<td>Category 4</td>
</tr>
<tr>
<td><strong>Acute toxicity - Inhalation (Dusts/Mists)</strong></td>
<td>Category 4</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td>Category 2</td>
</tr>
<tr>
<td><strong>Serious eye damage/eye irritation</strong></td>
<td>Category 2A</td>
</tr>
</tbody>
</table>
Reproductive toxicity

Category 1A

Appearance Solid

Physical state Solid

Odor None

GHS Label elements, including precautionary statements

Danger

Hazard statements
Harmful if swallowed
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May damage fertility or the unborn child

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
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

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
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

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

Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other information

Unknown acute toxicity
94.7 % of the mixture consists of ingredient(s) of unknown toxicity
55.4 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
94.7 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
61.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
61.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
61.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

**Mixture**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>Percent</th>
<th>Hazardous Material Information Review Act registry number (HMIRA registry #)</th>
<th>Date HMIRA filed and date exemption granted (if applicable)</th>
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</thead>
<tbody>
<tr>
<td>Supplier Trade Secret</td>
<td>-</td>
<td>20 - 30%</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Supplier Trade Secret</td>
<td>-</td>
<td>0 - 10%</td>
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<td>-</td>
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<tr>
<td>Supplier Trade Secret</td>
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<td>0 - 10%</td>
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<td>0 - 10%</td>
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<tr>
<td>Supplier Trade Secret</td>
<td>-</td>
<td>0 - 10%</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**First aid measures**

**General advice**

Show this safety data sheet to the doctor in attendance. First aid is upon rupture of sealed battery.

**Inhalation**

Remove to fresh air. Get medical attention immediately if symptoms occur. If breathing has stopped, give artificial respiration. Get medical attention immediately. If symptoms persist, call a physician.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

**Skin contact**

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

**Ingestion**

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

**Self-protection of the first aider**

Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. See section 8 for more information.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**

Burning sensation. Coughing and/or wheezing. Difficulty in breathing.

**Indication of any immediate medical attention and special treatment needed**

Note to physicians

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Avoid generation of dust. Do not breathe dust.

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

Methods and material 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

Precautions for safe handling

Advice on safe handling
In case of rupture: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid generation of dust. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplier Trade Secret</td>
<td>TWA: 0.02 mg/m³ Mn respirable particulate matter</td>
<td>(vacated) Ceiling: 5 mg/m³ Mn Ceiling: 5 mg/m³ Mn</td>
<td>IDLH: 500 mg/m³ Mn TWA: 1 mg/m³ Mn STEL: 3 mg/m³ Mn</td>
</tr>
<tr>
<td>Supplier Trade Secret</td>
<td>TWA: 2 mg/m³ respirable particulate matter all forms except graphite fibers</td>
<td>TWA: 15 mg/m³ total dust synthetic</td>
<td>TWA: 5 mg/m³ respirable fraction synthetic (vacated) TWA: 2.5 mg/m³ respirable dust natural (vacated) TWA: 10 mg/m³ total dust synthetic (vacated) TWA: 5 mg/m³ respirable fraction synthetic TWA: 15 mppcf natural</td>
</tr>
</tbody>
</table>

| Chemical name | Alberta | British Columbia | Ontario TWAEV | Quebec |
| Supplier Trade Secret | TWA: 0.2 mg/m³ | TWA: 0.2 mg/m³ | TWA: 0.02 mg/m³ TWA: 0.1 mg/m³ | TWA: 0.2 mg/m³ |
| Supplier Trade Secret | TWA: 2 mg/m³ | TWA: 2 mg/m³ | TWA: 5 ppm TWA: 18 mg/m³ Skin | TWA: 2 mg/m³ |
| Supplier Trade Secret | TWA: 2 mg/m³ | TWA: 2 mg/m³ | TWA: 2 mg/m³ | TWA: 2 mg/m³ |

**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.

**Appropriate engineering controls**

**Engineering controls**

Showers
Eyewash stations
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

If splashes are likely to occur, wear safety glasses with side-shields.

**Hand protection**

Wear suitable gloves. Impervious gloves.

**Skin and body protection**

Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and Chemical Properties**

**Physical state**

Solid

**Appearance**

Solid

**Odor**

None

**Color**

No information available

**Odor Threshold**

Not applicable
<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
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<th>Method</th>
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<tr>
<td>pH</td>
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<tr>
<td>Melting / freezing point</td>
<td>No data available</td>
<td>None known</td>
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<tr>
<td>Boiling point / boiling range</td>
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<td>None known</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
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<td>None known</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
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<td>None known</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
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<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
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<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
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<tr>
<td>Lower flammability limit</td>
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<td></td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
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<td></td>
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<td>Relative density</td>
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<td>None known</td>
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<td>Decomposition temperature</td>
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<tr>
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<td>Other Information</td>
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<tr>
<td>Explosive properties</td>
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<td>Oxidizing properties</td>
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<tr>
<td>Softening Point</td>
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<td></td>
</tr>
<tr>
<td>Molecular Weight</td>
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<tr>
<td>VOC Content (%)</td>
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<tr>
<td>Liquid Density</td>
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<td>None known</td>
<td></td>
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<tr>
<td>Bulk Density</td>
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<td>None known</td>
<td></td>
</tr>
<tr>
<td>Particle Size</td>
<td>No information available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Particle Size Distribution</td>
<td>No information available</td>
<td>None known</td>
<td></td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Reactivity**

No information available.

**Chemical stability**

Stable under normal conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Excessive heat.

**Incompatible materials**


**Hazardous Decomposition Products**

Carbon oxides.

### 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

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

**Inhalation**

Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).
Eye contact
Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). Irritating to eyes.

Skin contact
Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion
Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).

Information on toxicological effects

Symptoms
Redness. May cause redness and tearing of the eyes. Coughing and/or wheezing.

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

<table>
<thead>
<tr>
<th>Component Information</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplier Trade Secret</td>
<td>= 9000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Supplier Trade Secret</td>
<td>= 29000 mg/kg (Rat)</td>
<td>&gt; 20 mL/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Supplier Trade Secret</td>
<td>= 775 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation
Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation
Classification based on data available for ingredients. Irritating to eyes.

Respiratory or skin sensitization
No information available.

Germ cell mutagenicity
No information available. Carcinogenicity
No information available.

Reproductive toxicity
Classification based on data available for ingredients. Contains a known or suspected reproductive toxin.

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Aspiration hazard
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated.
1199222 - Omnergy CR Type Lithium Coin Cell

**Persistence and Degradability**

No information available.

**Bioaccumulation**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Log Pow</th>
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<tbody>
<tr>
<td>Supplier Trade Secret</td>
<td>&lt;0</td>
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<tr>
<td>Supplier Trade Secret</td>
<td>0.48</td>
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</tbody>
</table>

**Mobility**

No information available.

**Other adverse effects**

No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

- **Waste from residues/unused**: Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
- **Contaminated packaging**: Do not reuse empty containers.

**California Hazardous Waste Codes**

141

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Hazardous Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplier Trade Secret</td>
<td>Corrosive</td>
</tr>
<tr>
<td></td>
<td>Ignitable</td>
</tr>
<tr>
<td></td>
<td>Reactive</td>
</tr>
</tbody>
</table>

### 14. TRANSPORT INFORMATION

**Note:**

The transportation of primary lithium cells and batteries is regulated by the International Civil Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment: 1. Air shipments must meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations. 2. Meet the requirements for the US Department of Transportation listed in 49 CFR 173.185. 3. The transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to the Federal Register December 15, 2004 (Hazardous Materials; Prohibited on the Transportation of Primary Lithium Batteries and Cells Aboard Passenger Aircraft; Final Rule)

- Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "Dangerous Goods" when shipped in accordance with "special provision A45 of IATA-DGR" or "special provision 188 of IMO-IMDG Code"

**DOT**

PROPER SHIPPING NAME

NON-REGULATED

EMERGENCY RESPONSE GUIDE NUMBER

138

**TDG**

Not regulated
15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

Ozone-depleting substances (ODS)  Not applicable

Persistent Organic Pollutants  Not applicable

Export Notification requirements  Not applicable

International Inventories

TSCA  Contact supplier for inventory compliance status.
DSL/NDSL  Contact supplier for inventory compliance status.
EINECS/ELINCS  Contact supplier for inventory compliance status.
ENCS  Contact supplier for inventory compliance status.
KECL  Contact supplier for inventory compliance status.
PICCS  Contact supplier for inventory compliance status.
AICS  Contact supplier for inventory compliance status.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>Percent</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
</table>

---

MEX  Not regulated
ICAO  Not regulated
IATA
  - Proper Shipping Name: NON REGULATED
  - Hazard Class: N/A
  - ERG Code: 9FZ
IMDG/IMO  Not regulated
  - Proper Shipping Name: NON-REGULATED PER SP 188
  - Hazard Class: N/A
  - EmS-No.: F-A, S-I
RID  Not regulated
ADR  Not regulated
  - Tunnel restriction code: (E)
ADN  Not regulated
1199222 - Omnergy CR Type Lithium Coin Cell

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Rhode Island</th>
<th>Illinois</th>
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<tbody>
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<td>X</td>
<td>X</td>
<td>X</td>
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</tr>
</tbody>
</table>

16. OTHER INFORMATION

NFPA
Health hazards 1  Flammability 0  Instability 0

HMIS
Health hazards 0  Flammability 0  Physical hazards 0

Prepared By
Product Stewardship
23 British American Blvd.
Latham, NY 12110 1-800-572-6501

Revision Date
10-Apr-2020 (Revised by Power Glory)

Revision Note
No information available

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific
material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet