1. Product and company identification

Product identifier
Trade name: BLUFIXX PW

Relevant identified uses of the substance or mixture and uses advised against
General use: Adhesive

Details of the supplier of the safety data sheet
Company name: BLULIGHT LP
Street/POB-No.: 1900 West Loop South, Suite 1550
Postal Code, city: Houston, TX 77027 USA
WWW: www.blufixx.com
E-mail: info(at)blufixx.com
Telephone: 713-325-9130
Dept. responsible for information: E-mail: info(at)blufixx.com, Telephone: 713-325-9130

Emergency phone number
GIZ-Nord, Göttingen, Germany,
Telephone: +49 551-19240

2. Hazards identification

Emergency overview
Appearance: Form: liquid
Odor: No data available
Classification: Skin Irritation - Category 2; Eye Irritation - Category 2A; Sensitization - skin - Category 1; Specific Target Organ Toxicity (Single Exposure) - Category 3; Aquatic toxicity - chronic - Category 3;

Hazard symbols:

Signal word: Warning
Hazard statements:
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause respiratory irritation.
Harmful to aquatic life with long lasting effects.
Precautionary statements:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Avoid breathing mist/vapors/spray.
Wash hands and face thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection.
IF ON SKIN: Wash with plenty of water/soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor if you feel unwell.
Specific treatment (see on this label).
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization:

Mixture of the substances listed below with non-hazardous additions
Relevant ingredients:

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Designation</th>
<th>Content</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS 42978-66-5</td>
<td>Tri(propylene glycol) diacrylate</td>
<td>15 - 24%</td>
<td>Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aquatic toxicity - chronic - Category 2.</td>
</tr>
<tr>
<td>CAS 13048-33-4</td>
<td>Hexane-1,6-diol diacrylate</td>
<td>15 - 21%</td>
<td>Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 3.</td>
</tr>
<tr>
<td>CAS 52628-03-2</td>
<td>2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate</td>
<td>10 - 15%</td>
<td>Skin Irritation - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.</td>
</tr>
<tr>
<td>CAS 868-77-9</td>
<td>2-Hydroxyethyl methacrylate</td>
<td>&lt; 2%</td>
<td>Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1.</td>
</tr>
</tbody>
</table>

4. First aid measures

General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Put victim at rest and keep warm. Consult physician immediately. If victim is at risk of losing consciousness, position and transport on their side.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After eye contact: Remove contact lenses, if any. Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After swallowing: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Consult physician immediately.

Most important symptoms/effects, acute and delayed

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range: No data available

Auto-ignition temperature: No data available

Suitable extinguishing media: Dry chemical powder, water fog, carbon dioxide.
Extinguishing media which must not be used for safety reasons:

- Full water jet.

**Specific hazards arising from the chemical**

- May form dangerous gases and vapours in case of fire. Furthermore, there may develop: Carbon monoxide and carbon dioxide.

**Protective equipment and precautions for firefighters:**

- Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information:**

- Keep public away from danger area. Do not breathe fumes. Cool exposed containers with water spray. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

---

**6. Accidental release measures**

**Personal precautions:**

- Wear appropriate protective equipment. Do not breathe vapor. Take off contaminated clothing and wash it before reuse.
- Provide adequate ventilation. Avoid contact with skin and eyes. Keep unprotected people away. Eliminate all ignition sources if safe to do so.

**Environmental precautions:**

- Avoid release to the environment. Inform the relevant authorities in case of leakage into sewers, aquatic environment or soil.

**Methods for clean-up:**

- For containment: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.
- Methods for cleaning up: Take up mechanically, placing in appropriate containers for disposal. Final cleaning.

---

**7. Handling and storage**

**Handling**

**Advises on safe handling:**

- Avoid contact with skin, eyes and clothes. Do not breathe vapor.
- Wear appropriate protective equipment. When using do not eat or drink.
- Provide adequate ventilation, and local exhaust as needed. Wash hands before breaks and after work.
- Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

**Precautions against fire and explosion:**

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Storage**

**Requirements for storerooms and containers:**

- Store container tightly closed in a dry and cool place.
- Protect from heat and direct sunlight.

**Hints on joint storage:**

- Keep away from food, drink and animal feedingstuffs.
- Do not store together with: Free radical polymerization initiator, strong alkalis, reactive metals and bases.

---

**8. Exposure controls / personal protection**

**Engineering controls**

- Provide good ventilation and/or an exhaust system in the work area.
- See also information in chapter 7, section storage.
Personal protection equipment (PPE)


Respiratory protection: When vapors form, use respiratory protection. In case of insufficient ventilation, wear suitable respiratory equipment. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations: Do not breathe vapor. Avoid contact with the substance. Take off immediately all contaminated clothing. Wash clothing before further use. When using do not eat, drink or smoke. Wash hands before breaks and after work. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Work place should be equipped with a shower and an eye rinsing apparatus.

9. Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Form: liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH value</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point/flash point range</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available</td>
</tr>
<tr>
<td>Additional information</td>
<td>No data available</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Hazardous polymerisation: UV-radiation/sunlight, heat.
Conditions to avoid: Protect from heat and direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials: Free radical polymerization initiator, oxidizing agents, peroxides and reactive metals.

Hazardous decomposition products: No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

11. Toxicological information

Toxicological tests

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.
Eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.
Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause respiratory irritation.
Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity

Aquatic toxicity:
Harmful to aquatic life with long lasting effects.

Information about Tri(propylene glycol) diacrylate:
Algae toxicity: EC50 >28 mg/L/72 h.
Daphnia toxicity: EC50 Daphnia magna (Big water flea): 88.7 mg/L/48 h.
Fish toxicity: LC50 Leuciscus idus: 4.5 - 10 mg/L/96 h.

Information about Hexane-1,6-diol diacrylate:
Algae toxicity: EC50 1.5 mg/L/72 h.
Daphnia toxicity: EC50 Daphnia magna (Big water flea): 6 mg/L/24 h.
Fish toxicity: LC50 Leuciscus idus: 4.6 - 10 mg/L/96 h.

Further details:
Biodegradation: Product is readily biodegradable. (Hexane-1,6-diol diacrylate)
Mobility in soil
No data available

Persistence and degradability
Further details: No data available

Additional ecological information
General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product
Recommendation: Dispose of waste according to applicable legislation. Do not dispose of with household waste. Do not allow to enter into surface water or drains.

Contaminated packaging
Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

14. Transport information

USA: Department of Transportation (DOT)
Proper shipping name: Not restricted

Sea transport (IMDG)
Proper shipping name: Not restricted
Marine pollutant: no

Air transport (IATA)
Proper shipping name: Not restricted

Further information
No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - U.S. Federal Regulations
Tri(propylene glycol) diacrylate: TSCA Inventory: listed
TSCA HPVC: not listed
Hexane-1,6-diol diacrylate: TSCA Inventory: listed
TSCA HPVC: not listed
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate: TSCA Inventory: listed
TSCA HPVC: not listed
TSCA: listed
2-Hydroxyethyl methacrylate: TSCA Inventory: listed
TSCA HPVC: not listed

National regulations - Great Britain
Hazchem-Code: -
16. Other information

Text for labeling: Contains 15 - 24 % Tri(propylene glycol) diacrylate, 15 - 21 % Hexane-1,6-diol diacrylate, 10 - 15 % 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate, < 2 % 2-Hydroxyethyl methacrylate. Safety data sheet available on request.

Hazard rating systems:

NFPA Hazard Rating:
- Health: 2 (Moderate)
- Fire: 1 (Slight)
- Reactivity: 1 (Slight)

HMIS Version III Rating:
- Health: 2 (Moderate)
- Flammability: 1 (Slight)
- Physical Hazard: 1 (Slight)
- Personal Protection: X = Consult your supervisor

Reason of change:
- Changes in section 2: classification, labeling
- Changes in section 3: Changes in labeling CAS No. 52628-03-2
- General revision

Date of first version: 2/1/2016

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.
**SECTION 1 – Manufacturer Information 生產商資料**

**Manufacturer’s Name** 生產商：New Leader Battery Limited 新利達電池有限公司

**Emergency & Information Phone No** 緊急和資訊電話：852 - 2790 6280

**Address**：Rm A, 4/F, Block 1, Camelpaint Building, 62 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong.

**SECTION 2 – Hazardous Ingredients**

**IMPORTANT NOTE**
Use under normal conditions, the Zinc Chloride Manganese battery is hermetically sealed.

貯錳酸性電池在正常使用下是密封的

**Ingestion**：Swallowing a battery can be harmful. Contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. **IMMEDIATELY SEE DOCTOR**; Do not induce vomiting or give food or drink.

誤服：吞服電池是有害的，誤服了的電池會導致化學性燒傷，使食道嚴重灼傷，萬一誤服應立即盡快找就近的醫生診斷，不要給誤服者飲食或企圖把誤服之電池吐出

**Inhalation**：Contents of an open battery can cause respiratory irritation.

吸入：吸入了開封的電池會刺激呼吸道

**Skin Contact**：Contents of an open battery can cause skin irritation.

皮膚接觸：接觸了開封的電池會導致皮膚過敏

**Eye Contact**：Contents of an open battery can cause severe irritation.

眼睛接觸：如眼睛不慎接觸了已開封的電池會導致眼睛刺痛

**SECTION 3 – Composition**

**R03P,R6P**

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>Chemical Identification CAS# 代號</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polystyrene 膠</td>
<td>9003 – 53 – 6</td>
<td>1%</td>
</tr>
<tr>
<td>Zinc 鋅</td>
<td>7440 - 66 – 6</td>
<td>28%</td>
</tr>
<tr>
<td>Carbon 炭</td>
<td>1333 – 86 - 4</td>
<td>8%</td>
</tr>
<tr>
<td>Manganese Dioxide 二氧化錳</td>
<td>1313 - 13 - 9</td>
<td>25%</td>
</tr>
<tr>
<td>Zinc Chloride 氯化鋅</td>
<td>7646 – 85 - 7</td>
<td>4%</td>
</tr>
<tr>
<td>Iron 鐵</td>
<td>7439 - 89 – 6</td>
<td>20%</td>
</tr>
<tr>
<td>Distilled Water 純水</td>
<td>7732 – 18 - 5</td>
<td>14%</td>
</tr>
</tbody>
</table>

January 2018
**New Leader Battery Limited**

**Safety Data Sheet for Carbon Zinc (Extra Heavy Duty) Series**

**Document Number: SDS-R6P, R03P, 6F22(9V)** **Not for recharge** 不可充電 (Version: 2018)

**6F22(9V)**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>20%</td>
</tr>
<tr>
<td>Carbon</td>
<td>1333-86-4</td>
<td>5%</td>
</tr>
<tr>
<td>Manganese Dioxide</td>
<td>1313-13-9</td>
<td>24%</td>
</tr>
<tr>
<td>Zinc Chloride (ZnCl₂)</td>
<td>7646-85-7</td>
<td>4%</td>
</tr>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>24%</td>
</tr>
<tr>
<td>Distilled Water</td>
<td>7732-18-5</td>
<td>15.15%</td>
</tr>
<tr>
<td>Ammonium Chloride</td>
<td>12125-02-9</td>
<td>0.5%</td>
</tr>
<tr>
<td>Brass</td>
<td>7440-50-8</td>
<td>2.35%</td>
</tr>
<tr>
<td>Polystyrene</td>
<td>9003-53-6</td>
<td>5%</td>
</tr>
<tr>
<td>Other</td>
<td>N/A</td>
<td>0.00%</td>
</tr>
</tbody>
</table>

**SECTION 4 – First Aid Measures** 急救處理措施

**Ingestion**: Do not induce vomiting or give food or drink. Seek medical attention immediately. Call National Battery Ingestion Hotline for advice.

誤服：不要給誤服者飲食或企圖把誤服之電池吐出，應立即盡快找就近的醫生診斷，聯絡國際電池熱線尋求意見

**Inhalation**: Provide fresh air and seek medical attention.

吸入：提供新鮮的空氣和盡快找就近的醫生診斷

**Skin Contact**: Remove contaminated clothing and wash skin with soap and water. If a chemical burn occurs or if irritation persists, seek medical attention.

皮膚接觸：把受污染的衣物移走和應立即用肥皂水清洗患處

**Eye Contact**: Immediately flush eyes thoroughly with water for at least 15 minutes, lifting upper and lower lids, until no evidence of the chemical remains. Seek medical attention.

眼睛接觸：盡快用清水沖洗15分鐘，眨動上下眼皮，直至沒有化學物殘留在眼睛，盡快找就近的醫生診斷

**SECTION 5 – Fire Fighting Measures**

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

Fire fighters should wear self-contained breathing apparatus.

如遇上電池所引發之火警，可用任何認可之滅火器救火和他們的包裝材料，請勿把破裂的電池投入火堆中，滅火時應

穿上有自動提供氧氣的滅火衣

January 2018
Safety Data Sheet for Carbon Zinc (Extra Heavy Duty) Series

**SECTION 6 – Accidental Release Measures**

- **Ventilation Requirements:** Room ventilation may be required in areas where there are open or leaking batteries.
  通風設備︰如發生漏液或破損，應把電池移往室內通風地方
- **Eye Protection:** Wear safety glasses with side shields if handling an open or leaking battery.
  眼部護理︰應把已打開或漏液之電池，放入已盛載了水的水杯內
- **Gloves:** Use neoprene or natural rubber gloves if handling an open or leaking battery.
  手套︰已打開或漏液之電池在處理時，應帶上橡膠手套和放入防漏之容器內

**SECTION 7 – Handling and Storage**

- **Storage:** Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life.
  存放︰電池應存放在通風及清涼的地方，高溫存放會縮短電池之壽命
- **Handling:** Accidental short circuit for a few seconds will not seriously affect the battery. Prolonged short circuit will cause the battery to lose energy, and can cause the safety release vent to open. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, metal covered tables or metal belts used for assembly of batteries into devices.
  處理︰短暫短路對電池不會有嚴重之影響，短路時間會對電池之容量構成影響，產生高熱影響安全。把其他電池或金屬物品混合和放在同一容器內，會對電池產生短路，被破壞之池在結構內會形成短路
- **Charging:** This battery is manufactured in a charged state. Its is not designed for recharging. Recharging can cause battery leakage or in some case, high pressure rupture. Inadvertent charging can occur if a battery is installed backwards.
  充電︰電池在生產時已有足夠電量，此款電池設計是不適用在充電池上，把電池再充電有機會令電池漏液及因高壓造 成破壞，如不慎把電池充電可令電池發生反充。

**SECTION 8 – Exposure Controls / Person Protection**

- **Ventilation Requirements:** N.A.
- **Respiratory Protection:** N.A.
- **Eyes Protection:** N.A.
- **Gloves:** N.A.

January 2018
SECTION 9 – Physical / Chemical Properties 物理/化學特性

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>N.A.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>(H2O = 1): N.A.</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N.A.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>(mm Hg): N.A.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>(AIR = 1): N.A.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>(Butyl Acetate): N.A.</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>N.A.</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Cylindrical Shape, Odorless</td>
</tr>
</tbody>
</table>

SECTION 10 – Stability and Reactivity 反應性數據

<table>
<thead>
<tr>
<th>Condition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Stable</td>
</tr>
<tr>
<td>Hazardous Decomposition</td>
<td>Stability, Cylindrical Shape, Odorless</td>
</tr>
<tr>
<td>Hazardous Byproducts</td>
<td>Stability, Cylindrical Shape, Odorless</td>
</tr>
</tbody>
</table>

The Zinc Chloride Manganese Battery do not meet any of the criteria established in 40 CFR 261.2 of reactivity.

SECTION 11– Toxicological Information 毒物學的資料 : N.A.

SECTION 12– Ecological Information 生態學的資料 : N.A.

SECTION 13– Disposal Considerations : Dispose of the batteries according to government regulations. Do not incinerate. Disposal should be in accordance with the EC Battery Directive 2006/66/EC. Battery are labeled with “special collection” symbol (as shown) in accordance with the EC Battery Directive.
**SECTION 14 – Transport Information 運輸資訊**

The Batteries in all forms of transportation (e.g. Truck, air, or sea) must be packaged in a safe and responsible manner. Regulatory concerns form all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in (Strong Carton / Packaging) that prevents spillage of contents.

所有電池之運送方式 (e.g.航運, 空運和陸運) 必須要已負責任之態度和安全包裝來運送, 所有代理在監管安全包裝的問題上, 電池必須要裝放在 (加厚紙箱 / 包裝) 防止短路和防電池溢出之包裝容器內.

Zinc Chloride battery (sometime referred to as “Dry Cell” are not listed as dangerous goods under the ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road, The IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulation, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). These batteries are not subject to the dangerous goods regulations provided they meet the requirement contained in the following special provisions.

鋅錳酸性電池 (有需要時可參考 “干電池”, 因干電池類在 ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road, The IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulation, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR) 的危險品類別中. 此電池在下列的航運條例中也不屬於危險品:  

<table>
<thead>
<tr>
<th>Regulatory Parties</th>
<th>Special Provisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not Regulated</td>
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<tr>
<td>UN, ICAO</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>US DOT</td>
<td>49 CFR 172.102 Provision 130</td>
</tr>
<tr>
<td>IATA,</td>
<td>A123,</td>
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</tbody>
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Ref: Summary of Packing Instruction (IATA Dangerous Goods Regulations 59th Edition) the minimum requirements necessary to transport as non-restricted goods are as follows.

總括在包裝指引 (IATA 危險品條例 59 版) 在非違禁品運輸中最基本之要求如下:

**All Zinc Chloride Manganese Batteries are packed in such a way to prevent short circuits or the generation dangerous quantities of heat and meet the special provisions listed above. In addition, The IATA Dangerous Goods Regulations ICAO Technical Instructions require the words “Not Restricted” and the Special Provision No: A123 be provided on the air waybill, when an air waybill is issued.**

所有鋅錳酸性電池必需包裝在防止短路或在防止產生過熱之數量內和達到有關特別指引之要求下. 另外, 有關國際危險品的規例中的 ICAO 技術指示 “Not Restricted” 字眼, 在 A123 的特別條例中必須展示在空運提單中.
**SECTION 15– Regulatory Information:** Zinc Chloride Manganese Batteries are not classified as dangerous goods by US Department of Transportation or the major international regulatory bodies and are therefore not regulated.

SARA/TITLE III – As an article, this battery and its contents are not subject to the requirements of the Emergency Planning and Community Right to Know Act.

在美國運輸局和主要國際之條例中，鋅錳酸性電池是不介定在危險品的種類內.

SARA/TITLE III – 文章中，此類電池沒有在有關急介定之項目中.

**SECTION 16 – Other Information :** None