Report ID: MUI52WLG8236657U3

# MSDS

| | |
|---|---|
| Sample Name & Model | Polymer battery PL601452 (3.8V 500mAh 1.9Wh) |
| Applicant | SHENZHEN LANGZHIYIN ELECTRONIC CO.,LTD. |
| Address | Eastern Floor 6, Building D, No. 2, Xuezhujing 1st Road, Ji Hua Road, Xuexiang Bantian Longgang District, Shenzhen China |

PONY 谱尼测试
Pony Testing International Group

# 声 明
# Statement

1. 本报告无检验检测专用章、报告骑缝章和批准人签章无效。
This report is invalid without special seal for inspection and test, cross-page seal and signature of the approver.

2. 本报告页面所使用“PONY”、“谱尼”字样为谱尼测试集团的注册商标，其受《中华人民共和国商标法》保护，任何未经本单位授权的擅自使用和仿冒、伪造、变造“PONY”、“谱尼”商标均为违法侵权行为，本单位将依法追究其法律责任。
The words "PONY" and "谱尼" used in this report page are the registered trademarks of Pony Testing International Group, which are protected by the Trademark Law of the People's Republic of China. Any unauthorized use, counterfeiting, forging or altering of the trademarks of "PONY" and "谱尼" without the authorization of the company is an illegal infringement, and the company will investigate their legal liabilities according to law.

3. 委托单位对报告数据如有异议，请于报告完成之日起十五日内向本单位书面提出复测申请，同时附上报告原件并预付复测费。
If the applicant has any objection to the report data, please submit a written application for retesting to PONY within 15 days after the completion of the report, with the original report attached and the retesting fee prepaid.

4. 不可重复性或不能进行复测的实验，不进行复测，委托单位放弃异议权利。
If the experiment cannot be repeated or cannot be retested, no retest shall be conducted, and the appliant shall waive the right of objection.

5. 委托单位必须保证送至本公司的样品及资料与真实的出运货物相一致，如有不符，所涉及的法律责任及其他后果均由委托单位自行承担。
The client must guarantee that samples and documents provided for appraisal are consistent with the goods to be transported. Otherwise, the client shall bear all legal responsibilities and other consequences due to it.

6. 本报告仅对所测样品的检测结果负责，检测结果及其相关判定结论仅反映对所测样品的评价或只代表检测时污染物的排放状况。对于报告及所载内容不能进行商业广告宣传使用，使用所产生的直接或间接损失及一切法律后果，本单位不承担任何经济和法律责任。
This report is only responsible for the test results of the tested samples,The test results and relevant conclusions reflect the evaluation of the tested samples or only represent the emission status of pollutants during the test. The report and the contents contained in it cannot be used for commercial advertising, and PONY does not assume any economic and legal liabilities for direct or indirect losses and all legal consequences arising from the use.

7. 本单位有权在完成报告后按规定方式处理所测样品，除客户特别声明并支付样品管理费，所有超过标准规定时效期的样品均不再做留样。
PONY has the right to dispose the tested sample after approval of the test report. Unless the applicant specifically declares and pays the sample management fee, all samples beyond the validity period specified in the standard will not be retained.

8. 本单位保证工作的客观公正性，对委托单位的商业信息、技术文件等商业秘密履行保密义务。
PONY assures objectivity and impartiality of the test, and fulfills the obligation of confidentiality for applicant's commercial information, and technique document.

9. 本报告私自转让、盗用、冒用、涂改、未经本单位批准的复制(全文复制除外)或以其它任何形式的篡改均属无效，本单位将对上述行为严究其相应的法律责任。
Any unauthorized transfer, appropriation, falsification, alteration, copying (except full text copying) or alteration in any other form of this report without the approval of PONY shall be invalid. PONY shall strictly investigate the corresponding legal liability for the aforesaid behavior.

10. 本报告不考虑国家及经营人差异。
The certificate/report takes no account of the differences of countries and applicants.

**********

▲ 防伪说明(Anti-counterfeiting Instructions):

1. 报告编号是唯一的。
The report number is unique.
2. 扫描报告首页下方二维码，即可查询报告真伪。
Scan the QR code below the first page to check the authenticity of the report.
3. 报告采用特制防伪纸张印制，纸张表面带有“PONY”防伪纹路，该防伪纹路不支持复印，即复制件不会带有“PONY”防伪纹路。
The report is printed on specially made anti-counterfeit paper with the "PONY" anti-counterfeit pattern on the surface of the paper. This anti-counterfeit pattern does not support copying, meaning that the copied product will not have the "PONY" anti-counterfeit pattern.
4. 报告采用的防伪纸张内部亦加带有高科技“PONY”防伪水印，只有在验钞机等紫外线照射下方可显出无色荧光防伪字样。
The anti-counterfeit paper used in the report also has a high-tech "PONY" anti-counterfeit watermark added inside, and the colorless fluorescent anti-counterfeit words can only be displayed under UV irradiation such as in the cash detector.

**********

# Material Safety Data Sheet

Reference to ST/SG/AC.10/30/Rev.11 (GHS)

## Section 1 - Chemical Product and Company Identification

**Chemical Product Identification**

**Sample Name:** Polymer battery

**Sample Model:** PL601452

**Recommended Uses:** N/A

**Restrictions on Use:** N/A

**Supplier Name:** Guangdong Jixin energy Co., LTD

**Address:** 91 Bei Road, Hengli Town, Dongguan City, Guangdong Province,China

**Phone Number:** (0769) 8298 0698

**FAX:** /

**E-mail:** 1219288297@qq.com

**Emergency Phone Number:** 13528667868

## Section 2 - Hazards Identification

**Emergency overview:** This product is a battery. Intended use of the product should not result in exposure to the chemical substance. In case of rupture the below hazards exist.

**Classification according to GHS**

Acute toxicity, oral (4)

Skin corrosion/irritation (2)

Serious eye damage/eye irritation (2A)

Specific target organ toxicity, single exposure; Respiratory tract irritation (3)

**Label elements**

**Hazard pictogram(s):**

**Signal word:** Warning

**Hazard statement(s):**

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

**Precautionary statement(s):**



Pony Testing Group Shenzhen Co., Ltd.
Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Testing Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Tel: 0755-26050909
Fax: 0755-26068336

**Prevention:**

P264 Wash skin and clothing thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

P261 Avoid breathing dust, fume, gas, mist, vapours, spray.

**Response:**

P301 + P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell.

P330 Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty water.

P321 Specific treatment (See additional emergency instructions).

P333 + P313 If skin irritation or rash occurs: Get medical advice.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER, if you feel unwell.

**Storage**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

**Disposal:**

P501 Send contents to approved waste treatment plants.

**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

| Chemical Composition | CAS No. | EC# | Weight (%) |
|---|---|---|---|
| Cobaltate, lithium | 12190-79-3 | 235-362-0 | 38.07 |
| Aluminium | 7429-90-5 | 231-072-3 | 5.87 |
| Graphite | 7782-42-5 | 231-955-3 | 21.1 |
| Copper | 7440-50-8 | 231-159-6 | 6.65 |
| Nickel | 7440-02-0 | 231-111-4 | 2.25 |



Pony Testing Group Shenzhen Co., Ltd.
Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Testing Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Tel: 0755-26050909
Fax: 0755-26068336

| | | | |
|---|---|---|---|
| Polyethylene | 9002-88-4 | 618-339-3 | 1.4 |
| Phosphate(1-), hexafluoro-, lithium | 21324-40-3 | 244-334-7 | 21.95 |
| Styrene-butadiene rubber 1500 | 9003-55-8 | 618-370-2 | 1.14 |
| Polyvinylidene fluoride resin | 24937-79-9 | 607-458-6 | 1.57 |

## 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:** Treat symptomatically.

## Section 5 - Fire Fighting Measures

**Suitable extinguishing media:**

Small Fire: Dry chemical, $CO_2$, water spray or regular foam. Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk.

**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℃(302℉)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in


Pony Testing Group Shenzhen Co., Ltd.
Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Testing Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Tel: 0755-26050909
Fax: 0755-26068336

close proximity.

**Specific protective actions for fire-fighters:**

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

## Section 6 - Accidental Release Measures

**Personal precautions:**

As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. Keep unauthorized personnel away. Stay upwind, uphill and/or upstream. Ventilate closed spaces before entering. Large Spill: Consider initial downwind evacuation for at least 100 meters (330 feet).

**Protective equipment:**

No data available.

**Emergency procedures:**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Absorb with earth, sand or other non-combustible material. Leaking batteries and contaminated absorbent material should be placed in metal containers.

**Environmental precautions:**

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

**Methods and materials for containment and cleaning up:**

For all waste handing must refer to United Nations, 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:**

Avoid short circuiting the battery. Avoid mechanical damage of the battery. Do not open or disassemble. Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.

**Conditions for safe storage, including any incompatibilities:**

Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

## Section 8 - Exposure Controls/Personal Protection


Pony Testing Group Shenzhen Co., Ltd.
Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Testing Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Tel: 0755-26050909
Fax: 0755-26068336

**Control parameters**

| CAS No. | ACGIH | NIOSH | OSHA |
|---|---|---|---|
| 12190-79-3 | N/A | N/A | N/A |
| 7429-90-5 | TLV-TWA 1mg/m$^3$ | REL-TWA 2mg/m$^3$<br>REL-TWA 5mg/m$^3$<br>REL-TWA 10mg/m$^3$ | PEL-TWA 5mg/m$^3$<br>PEL-TWA 15mg/m$^3$ |
| 7782-42-5 | TLV-TWA 2mg/m$^3$ | REL-TWA 2.5mg/m$^3$ | PEL-TWA 15mppcf<br>PEL-TWA 20mppcf |
| 7440-50-8 | TLV-TWA 0.2mg/m$^3$<br>TLV-TWA 1mg/m$^3$ | REL-TWA 1mg/m$^3$<br>REL-TWA 0.1mg/m$^3$ | PEL-TWA 0.1mg/m$^3$<br>PEL-TWA 1mg/m$^3$ |
| 7440-02-0 | TLV-TWA 1.5mg/m$^3$ | REL-TWA 0.015mg/m$^3$ | PEL-TWA 1mg/m$^3$ |
| 9002-88-4 | N/A | N/A | N/A |
| 21324-40-3 | N/A | N/A | N/A |
| 9003-55-8 | N/A | N/A | N/A |
| 24937-79-9 | N/A | N/A | N/A |

**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. For a large large number of battery leakages, wear chemical protective clothing, including self-contained breathing apparatus.

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

**Eye 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:** | Silver. |
| **Physical State:** | Prismatic. |
| **Odour:** | Not available. |


Pony Testing Group Shenzhen Co., Ltd.
Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Testing Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Tel: 0755-26050909
Fax: 0755-26068336

| | |
|---|---|
| **pH:** | Not available. |
| **Melting point/freezing point:** | Not available. |
| **Boiling point or initial boiling point and boiling range:** | Not available. |
| **Flash Point:** | Not available. |
| **Flammability:** | Not available. |
| **Solubility:** | Not available. |
| **Lower and upper explosion limit/flammability limit:** | Not available. |
| **Auto-ignition temperature:** | Not available. |
| **Decomposition temperature:** | Not available. |
| **Kinematic viscosity:** | Not available. |
| **Partition coefficient: n-octanol/water (log value):** | Not available. |
| **Vapour pressure:** | Not available. |
| **Density and/or relative density:** | Not available. |
| **Relative vapour density:** | Not available. |
| **Particle characteristics:** | Not available. |
| **Other information:** | |
| **Voltage** | 3.8V |
| **Electric capacity** | 500mAh |
| **Electric Energy** | 1.9Wh |

## 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.

**Incompatible materials:** Oxidizing agents, acid base.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide, lithium oxide fumes.

## Section 11 - Toxicological Information

**Acute Toxicity:**

| CAS No. | LC50/LD50 |
|---|---|
| 12190-79-3 | No data available. |
| 7429-90-5 | No data available. |
| 7782-42-5 | No data available. |
| 7440-50-8 | No data available. |


Pony Testing Group Shenzhen Co., Ltd.
Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Testing Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Tel: 0755-26050909
Fax: 0755-26068336

| | |
|---|---|
| 7440-02-0 | LD50 Rat (oral): >9000mg/kg |
| 9002-88-4 | No data available. |
| 21324-40-3 | No data available. |
| 9003-55-8 | No data available. |
| 24937-79-9 | No data available. |

**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


Pony Testing Group Shenzhen Co., Ltd.
Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Testing Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Tel: 0755-26050909
Fax: 0755-26068336

| | |
|---|---|
| **UN or ID Number** | |
| **IATA** | UN3481 |
| **IMDG** | UN3481 |
| **Proper Shipping Name/Description** | |
| **IATA** | Lithium ion batteries contained in equipment |
| **IMDG** | LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT |
| **Packing Group** | |
| **IATA** | N/A |
| **IMDG** | N/A |
| **Hazard Label** | |
| **IATA** | N/A |
| **IMDG** | N/A |
| **Environmental hazards** | |
| **Marine pollutant:** | No |
| **IMDG EmS:** | F-A. S-I |
| **Special precautions for user** | No information available. |

**Transport information:** The Polymer battery PL601452 has passed the test UN38.3, according to the report ID: MUIL7W9G8191377U5.

According to the Packing Instruction 967 section II of IATA DGR 67th Edition for transportation.

According to the special provision 188 of IMDG (42-24), the goods are not subject to other provision of this code.

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

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

## Section 15 - Regulatory Information

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

| CAS No. | TSCA | IECSC | DSL/NDSL | EINECS/ ELINCS/ NLP |
|---|---|---|---|---|
| 12190-79-3 | Listed | Listed | Listed DSL | Listed |
| 7429-90-5 | Listed | Listed | Listed DSL | Listed |
| 7782-42-5 | Listed | Listed | Listed DSL | Listed |


Pony Testing Group Shenzhen Co., Ltd.
Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Testing Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Tel: 0755-26050909
Fax: 0755-26068336

| | | | | |
|---|---|---|---|---|
| 7440-50-8 | Listed | Listed | Listed DSL | Listed |
| 7440-02-0 | Listed | Listed | Listed DSL | Listed |
| 9002-88-4 | Listed | Listed | Listed DSL | Listed |
| 21324-40-3 | Listed | Listed | Listed DSL | Listed |
| 9003-55-8 | Listed | Listed | Listed DSL | Listed |
| 24937-79-9 | Listed | Listed | Listed DSL | Listed |

## Section 16 - Other Information

Issue Date: 2026-03-10

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-short time exposure limit);

PC-TWA: (Permissible concentration-time weighted average);

IARC: (International Agency for Research on Cancer);

LC50: (Lethal concentration, 50 percent kill);

LD50: (Lethal dose, 50 percent kill);

EC50: (Median effective concentration);

BCF: (Bioconcentration Factor);

BOD: (Biochemical oxygen demand);


Pony Testing Group Shenzhen Co., Ltd.
Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Testing Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Tel: 0755-26050909
Fax: 0755-26068336

IECSC: (Inventory of Existing Chemical Substances in China);
NOEC: (No observed effect concentration);
NTP: (US National Toxicology Program);
RTECS: (Registry of Toxic Effects of Chemical Substances);
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);
IATA: (International Air Transport Association);
IMDG: (International Maritime Dangerous Goods);
TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations)

Approver: Zhang Chunmei.

***End of report***


Pony Testing Group Shenzhen Co., Ltd.
Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Testing Address: 3/F. of Building 2, Building 1, Xinhaosheng Industrial Park, Yonghe Road, Qiaotou Community, Baoan District, Shenzhen, Guangdong, China
Tel: 0755-26050909
Fax: 0755-26068336

# SAFETY DATA SHEET

**Issuing Date** 24-Apr-2025 **Revision Date** 23-Apr-2025 **Revision Number** 1

NGHS / English



## 1. IDENTIFICATION

**Product identifier**

**Product Name** Polymer battery 531350 (3.8V 350mAh 1.33Wh)

**Other means of identification**

**Product Code(s)** 1849808

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

**Recommended Use** Lithium Ion Battery

**Restrictions on use** No information available

**Details of the supplier of the safety data sheet**

**Supplier Identification** Guangdong Jixin Energy Co.,LTD.

**Address** 91 Bei Road, Hengli Town, Dongguan City, Guangdong Province,China
DongGuang
GuangDong
523475
CN

**Telephone** Phone:13423876878

**E-mail** support@ohosunshine.com

**Emergency telephone number**

**Company Emergency Phone Number** 0769-82980698

## 2. HAZARDS IDENTIFICATION

**Classification**

| | |
|---|---|
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Dermal | Category 4 |
| Skin corrosion/irritation | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1 |

| | |
|---|---|
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 1B |
| Specific target organ toxicity (repeated exposure) | Category 1 |

This is a battery. In case of rupture: the above hazards exist.

**Appearance** Silver **Physical state** Solid containing liquid Solid **Odor** Acetic

**GHS Label elements, including precautionary statements**

**Danger**

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

**Precautionary Statements - Prevention**
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Contaminated work clothing must not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray
**Precautionary Statements - Response**
Specific treatment (see supplemental first aid instructions on this label)
Immediately call a POISON CENTER or doctor
**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
**Skin**
Call a POISON CENTER or doctor if you feel unwell
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
**Inhalation**
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Immediately call a POISON CENTER or doctor
**Ingestion**
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
Rinse mouth
Do NOT induce vomiting

**Precautionary Statements - Storage**
Store locked up

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

**Other information**
Very toxic to aquatic life with long lasting effects.

**Unknown acute toxicity** 22.72 % of the mixture consists of ingredient(s) of unknown toxicity
22.72 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
22.72 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
22.72 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
22.72 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
22.72 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

**Mixture**

| Chemical name | CAS No | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|---|---|---|---|---|
| Lithium Cobalt Oxide (CoLiO2) | 12190-79-3 | 39.22 | - | - |
| Graphite | 7782-42-5 | 22.72 | - | - |
| Phosphate(1-), hexafluoro-, lithium | 21324-40-3 | 19.4 | - | - |
| Aluminum | 7429-90-5 | 9.22 | - | - |
| Copper | 7440-50-8 | 8.9 | - | - |
| Nickel | 7440-02-0 | 8.17 | - | - |

## 4. FIRST AID MEASURES

**Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. IF exposed or concerned: Get medical advice/attention. First aid is upon rupture of sealed battery. In case of rupture:

**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 immediate medical advice/attention.

**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. Get immediate medical advice/attention.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention. May cause an allergic skin reaction.

**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 immediate medical advice/attention.

**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. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

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

**Symptoms** Burning sensation. Itching. Rashes. Hives.

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

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible 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. May cause sensitization in susceptible persons. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**Specific 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. Product is or contains a sensitizer. May cause sensitization by skin contact.

**Hazardous Combustion Products** Carbon oxides.

**Explosion Data**
**Sensitivity to Mechanical Impact** None.
**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**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.

**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. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

**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. Protect from moisture. Store away from other materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Limits**

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Lithium Cobalt Oxide (CoLiO2)<br>12190-79-3 | TWA: 0.02 mg/m³ | - | |
| Graphite<br>7782-42-5 | TWA: 2 mg/m³ respirable particulate matter all forms except graphite fibers | TWA: 15 mg/m³ total dust synthetic<br>TWA: 5 mg/m³ respirable fraction synthetic<br>TWA: 15 mppcf respirable dust natural<br>(vacated) TWA: 2.5 mg/m³ respirable dust natural<br>(vacated) TWA: 10 mg/m³ total dust synthetic<br>(vacated) TWA: 5 mg/m³ respirable fraction synthetic<br>TWA: 15 mppcf natural | IDLH: 1250 mg/m³<br>TWA: 2.5 mg/m³ respirable dust |
| Phosphate(1-), hexafluoro-, lithium<br>21324-40-3 | TWA: 2.5 mg/m³ F | TWA: 2.5 mg/m³ F<br>(vacated) TWA: 2.5 mg/m³ | IDLH: 250 mg/m³ F |
| Aluminum<br>7429-90-5 | TWA: 1 mg/m³ respirable particulate matter | TWA: 15 mg/m³ total dust<br>TWA: 5 mg/m³ respirable fraction<br>(vacated) TWA: 15 mg/m³ total | TWA: 10 mg/m³ total dust<br>TWA: 5 mg/m³ respirable dust |

| | | | |
|---|---|---|---|
| | | dust<br>(vacated) TWA: 5 mg/m³<br>respirable fraction | |
| Copper<br>7440-50-8 | TWA: 0.2 mg/m³ fume | TWA: 0.1 mg/m³ fume<br>TWA: 1 mg/m³ dust and mist<br>(vacated) TWA: 0.1 mg/m³ Cu<br>dust, fume, mist | IDLH: 100 mg/m³ dust, fume and mist<br>TWA: 1 mg/m³ dust and mist<br>TWA: 0.1 mg/m³ fume |
| Nickel<br>7440-02-0 | TWA: 1.5 mg/m³ | TWA: 1 mg/m³<br>(vacated) TWA: 1 mg/m³ | IDLH: 10 mg/m³<br>TWA: 0.015 mg/m³ |

| Chemical name | Alberta | British Columbia | Ontario TWAEV | Quebec |
|---|---|---|---|---|
| Lithium Cobalt Oxide (CoLiO2)<br>12190-79-3 | TWA: 0.02 mg/m³ | TWA: 0.02 mg/m³ | TWA: 0.02 mg/m³ | TWA: 0.02 mg/m³ |
| Graphite<br>7782-42-5 | TWA: 2 mg/m³ | TWA: 2 mg/m³ | TWA: 2 mg/m³ | TWA: 2 mg/m³ |
| Phosphate(1-), hexafluoro-, lithium<br>21324-40-3 | TWA: 2.5 mg/m³ | TWA: 2.5 mg/m³ | TWA: 2.5 mg/m³ | TWA: 2.5 mg/m³ |
| Aluminum<br>7429-90-5 | TWA: 10 mg/m³ | TWA: 1.0 mg/m³ | TWA: 1 mg/m³ | TWA: 10 mg/m³ |
| Copper<br>7440-50-8 | TWA: 0.2 mg/m³<br>TWA: 1 mg/m³ | TWA: 1 mg/m³<br>TWA: 0.2 mg/m³ | TWA: 0.2 mg/m³<br>TWA: 1 mg/m³ | TWA: 0.2 mg/m³<br>TWA: 1 mg/m³ |
| Nickel<br>7440-02-0 | TWA: 1.5 mg/m³ | TWA: 0.05 mg/m³ | TWA: 1 mg/m³ | TWA: 1.5 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** Face protection shield.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

**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. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Physical state** Solid containing liquid; Solid

| | |
|---|---|
| **Appearance** | Silver |
| **Odor** | Acetic |
| **Color** | No information available |
| **Odor Threshold** | No information available |

| Property | Values | Remarks Method |
|---|---|---|
| **pH** | No data available | None known |
| **Melting / freezing point** | No data available | None known |
| **Boiling point / boiling range** | No data available | None known |
| **Flash Point** | No data available | None known |
| **Evaporation Rate** | No data available | None known |
| **Flammability (solid, gas)** | No data available | None known |
| **Flammability Limit in Air** | | |
| **Upper flammability limit** | No data available | |
| **Lower flammability limit** | No data available | |
| **Vapor pressure** | No data available | None known |
| **Vapor density** | No data available | None known |
| **Relative density** | No data available | None known |
| **Water Solubility** | Insoluble in water | |
| **Solubility(ies)** | No data available | None known |
| **Partition coefficient: n-octanol/water** | No data available | |
| **Autoignition temperature** | No data available | None known |
| **Decomposition temperature** | No data available | None known |
| **Kinematic viscosity** | No data available | None known |
| **Dynamic viscosity** | No data available | None known |

**Other Information**

| | |
|---|---|
| **Explosive properties** | No information available |
| **Oxidizing properties** | No information available |
| **Softening Point** | No information available |
| **Molecular Weight** | No information available |
| **VOC Content (%)** | No information available |
| **Liquid Density** | No information available |
| **Bulk Density** | No information available |
| **Particle Size** | No information available |
| **Particle Size Distribution** | No information available |

## 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** Exposure to air or moisture over prolonged periods.

**Incompatible materials** Acids. Bases. Oxidizing agent.

**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. 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.

**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.

**Skin contact** Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May be absorbed through the skin in harmful amounts. Harmful in contact with skin.

**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.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Redness. Burning. May cause blindness. Coughing and/ or wheezing. Itching. Rashes. Hives.

**Numerical measures of toxicity**

**Acute toxicity**

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

**ATEmix (oral)** 1,991.80 mg/kg
**ATEmix (dermal)** 1,195.10 mg/kg

**Unknown acute toxicity** 22.72 % of the mixture consists of ingredient(s) of unknown toxicity

22.72 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
22.72 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
22.72 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
22.72 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
22.72 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Product Information

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Lithium Cobalt Oxide (CoLiO2) | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rat ) | > 5.05 mg/L ( Rat ) 4 h |
| Graphite | - | - | > 2000 mg/m³ ( Rat ) 4 h |
| Aluminum | - | - | > 0.888 mg/L ( Rat ) 4 h |
| Copper | - | - | > 5.11 mg/L ( Rat ) 4 h |
| Nickel | > 9000 mg/kg ( Rat ) | - | > 10.2 mg/L ( Rat ) 1 h |

**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. Causes burns.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.

**Respiratory or skin sensitization** May cause sensitization by skin contact.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

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

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Lithium Cobalt Oxide (CoLiO2) 12190-79-3 | A3 | Group 2B | Reasonably Anticipated | X |
| Nickel 7440-02-0 | - | Group 2B | Reasonably Anticipated | X |

**Legend**

**ACGIH (American Conference of Governmental Industrial Hygienists)**
A3 - Animal Carcinogen
**IARC (International Agency for Research on Cancer)**
Group 2B - Possibly Carcinogenic to Humans
**NTP (National Toxicology Program)**
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** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Graphite | No data available | 96h LC50: > 100 mg/L (Danio rerio) | No data available | No data available |
| Copper | 72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella subcapitata) | 96h LC50: 0.0068 - 0.0156 mg/L (Pimephales promelas) 96h LC50: < 0.3 mg/L (Pimephales promelas) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 1.25 mg/L | No data available | 48h EC50: = 0.03 mg/L (Daphnia magna) |

| | | | | |
|---|---|---|---|---|
| | | (Lepomis macrochirus)<br>96h LC50: = 0.3 mg/L (Cyprinus carpio)<br>96h LC50: = 0.8 mg/L (Cyprinus carpio)<br>96h LC50: = 0.112 mg/L (Poecilia reticulata) | | |
| Nickel | 72h EC50: = 0.18 mg/L (Pseudokirchneriella subcapitata)<br>96h EC50: 0.174 - 0.311 mg/L (Pseudokirchneriella subcapitata) | 96h LC50: > 100 mg/L (Brachydanio rerio)<br>96h LC50: = 1.3 mg/L (Cyprinus carpio)<br>96h LC50: = 10.4 mg/L (Cyprinus carpio) | No data available | 48h EC50: > 100 mg/L (Daphnia magna)<br>48h EC50: = 1 mg/L (Daphnia magna) |

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

**Mobility** No information available.

**Other adverse effects** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 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** NOT REGULATED
- **Proper Shipping Name** NON-REGULATED
- **Hazard Class** N/A
- **Emergency Response Guide** 147

**Number**

**TDG** Not applicable

**MEX** Not applicable

**ICAO** Not applicable

**IATA**

| | |
|---|---|
| **UN-No.** | UN3480 |
| **Proper Shipping Name** | LITHIUM ION BATTERIES |
| **Hazard Class** | 9 |
| **ERG Code** | 12FZ |
| **Description** | UN3480, LITHIUM ION BATTERIES, 9 |

**IMDG/IMO** Not applicable

| | |
|---|---|
| **Proper Shipping Name** | NON-REGULATED PER SP 188 |
| **Hazard Class** | N/A |
| **EmS-No.** | F-A, S-I |

**RID** Not applicable

**ADR** Not applicable

**Tunnel restriction code** (E)

**ADN** Not applicable

## 15. REGULATORY INFORMATION

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

**International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** 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

| Chemical name | CAS No | Weight-% | SARA 313 - Threshold Values % |
|---|---|---|---|
| Lithium Cobalt Oxide (CoLiO2) - 12190-79-3 | 12190-79-3 | 39.22 | 0.1 |
| Aluminum - 7429-90-5 | 7429-90-5 | 9.22 | 1.0 |
| Copper - 7440-50-8 | 7440-50-8 | 8.9 | 1.0 |
| Nickel - 7440-02-0 | 7440-02-0 | 8.17 | 0.1 |

**SARA 311/312 Hazard Categories**
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

**CWA (Clean Water Act)**
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Copper<br>7440-50-8 | | X | X | |
| Nickel<br>7440-02-0 | | X | X | |

**CERCLA**
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|---|---|---|---|
| Copper<br>7440-50-8 | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| Nickel<br>7440-02-0 | 100 lb | | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |

## US State Regulations

**California Proposition 65**
This product contains the following Proposition 65 chemicals.

| Chemical name | California Proposition 65 |
|---|---|
| Nickel - 7440-02-0 | carcinogen, 10/1/1989 (metallic) |

**U.S. State Right-to-Know Regulations**

This product may contain substances regulated by state right-to-know regulations.

| Chemical name | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|---|---|---|---|---|---|
| Lithium Cobalt Oxide (CoLiO2)<br>12190-79-3 | X | | X | X | X |
| Graphite<br>7782-42-5 | X | X | X | | |
| Phosphate(1-), | X | | | | |

| | | | | | |
|---|---|---|---|---|---|
| hexafluoro-, lithium 21324-40-3 | | | | | |
| Aluminum 7429-90-5 | X | X | X | X | |
| Copper 7440-50-8 | X | X | X | X | X |
| Nickel 7440-02-0 | X | X | X | X | X |

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health hazards** 1 | **Flammability** 0 | **Instability** 0 | **Physical and Chemical Properties** - |
| **HMIS** | **Health hazards** 0 | **Flammability** 0 | **Physical hazards** 0 | **Personal Protection** X |

**Prepared By**

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

**Issuing Date** 24-Apr-2025

**Revision Date** 23-Apr-2025

**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**