



Pony Testing International Group

Report No.: MPITZY2L677057U3

2022 年 1 月 1 日生效

MSDS Report

Sample Name
& Model

Lithium manganese dioxide battery M950538

Applicant

EVE Energy Co., Ltd.

Address

NO.38, HuiFeng7thRoad, Zhongkai Hi-TechZone, HuiZhou,
Guangdong, China



No.: MPITZY2L677057U3
Code: w8ehqwd7

PONY
Hotline 400-819-5688



北京实验室: (010)83055000 武汉实验室: (027)85446975 新疆实验室: (0991)6684186 太原实验室: (0351)7555722
北京医学实验室: (010)62450233 武汉车附所: (027)82318175 石家庄实验室: (0311)85376660 合肥实验室: (0551)63843474
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北京实验室:(010)83055000
北京医学实验室:(010)62450233转8010
北京谱尼科技公司:(010)80415661
上海实验室:(021)64851999
上海医学实验室:(021)37895599
上海松江实验室:(021)37895599
青岛实验室:(0532)88706866
青岛医学实验室:(0532)88706866
深圳实验室:(0755)26050909
深圳医学实验室:(0755)26050909

武汉实验室:(027)85446975
武汉车附所:(027)82318175
武汉医学实验室:(027)85446975
吉林医学实验室:(0431)80529700
长春实验室:(0431)80530198
大连实验室:(0411)87336618
大连医学实验室:(0411)87336618
哈尔滨实验室:(0451)58627755
黑龙江医学实验室:(0451)58603455
苏州医学实验室:(0512)62997900

新疆实验室:(0991)6684186
石家庄实验室:(0311)85376660
西安实验室:(029)89608785
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Material Safety Data Sheet

Reference to ST/SG/AC.10/30/Rev.9 (GHS)

Section 1 - Chemical Product and Company Identification

Chemical Product Identification

Sample Name: Lithium manganese dioxide battery

Sample Model: M950538

Recommended Uses: N/A

Restrictions on Use: N/A

Supplier Name: EVE Energy Co., Ltd.

Address: NO.38, HuiFeng7thRoad, Zhongkai Hi-TechZone, HuiZhou, Guangdong, China

Phone Number: 13828810395

FAX: /

E-mail: RenZheng1@evebattery.com

Emergency Phone Number: 13828810395

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)

Acute toxicity, inhalation (4)

Skin corrosion/irritation (1A-1C)

Serious eye damage/eye irritation (1)

Sensitisation, skin (1, 1A, 1B)

Carcinogenicity (2)

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

Specific target organ toxicity, repeated exposure (2)

Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

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Hotline 400-819-5688

www.ponytest.com

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

北京实验室:(010)83055000	哈尔滨实验室:(0451)58627755	内蒙古医学实验室:(0471)3591511	武汉实验室:(027)83997127
北京医学实验室:(010)62450233-8010	黑龙江医学实验室:(0451)58603455	太原实验室:(0351)7555722	武汉医学实验室:(027)85446975
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青岛医学实验室:(0532)88706866	新疆实验室:(0991)6684186	上海实验室:(021)64851999	宁波实验室:(0574)87977185
天津实验室:(022)23607888	石家庄实验室:(0311)85376660	上海医学实验室:(021)64851999	合肥实验室:(0551)63843474
天津医学实验室:(022)23607888	西安实验室:(029)89608785	苏州实验室:(0512)62997900	深圳实验室:(0755)26050909
长春实验室:(0431)80530198	西安创尼实验室:(029)81123093	苏州汽车安全带及儿童安全座椅	深圳医学实验室:(0755)26050909
吉林医学实验室:(0431)80529700	西安德威实验室:(029)62886819	碰撞实验室:(0512)62997900	广州实验室:(020)89224310
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- H302 Harmful if swallowed
- H332 Harmful if inhaled
- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H317 May cause an allergic skin reaction
- H351 Suspected of causing cancer
- H335 May cause respiratory irritation
- H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statement(s):

Prevention:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust, fume, gas, mist, vapours, spray.
- P264 Wash skin and clothing thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves, protective clothing, eye protection, face protection.

Response:

- P330 Rinse mouth.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P363 Wash contaminated clothing before reuse.
- P310 Immediately call a POISON CENTER.
- P321 Specific treatment (See additional emergency instructions).
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P302 + P352 IF ON SKIN: Wash with plenty of water.

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



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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 (%)
Manganese dioxide	1313-13-9	215-202-6	40
Lithium	7439-93-2	231-102-5	2.7
Electrolyte	---	---	16
Plastic	---	---	10
Steel	---	---	15
Others	---	---	16.3

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.



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Section 5 - Fire Fighting Measures

Suitable extinguishing media:

Small Fire: Dry chemical, soda ash, lime or sand. Large Fire: DRY sand, dry chemical, soda ash or lime or withdraw from area and let fire burn. Move containers from fire area if you can do it without risk.

Unsuitable extinguishing media:

Water or foam.

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. Produce flammable gases on contact with water. May ignite on contact with water or moist air. Some react vigorously or explosively on contact with water. May be ignited by heat, sparks or flames. May re-ignite after fire is extinguished. Runoff may create fire or explosion hazard.

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 in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids. Keep unauthorized personnel away. Stay upwind, uphill and/or upstream. Ventilate the area before entry.

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. Stop leak if you can do it without risk. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. DO NOT GET WATER on spilled substance or inside containers. Small Spill: Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. Dike for later disposal; do not apply water unless directed to do so. Powder Spill: Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

Environmental precautions:

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



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Methods and materials for containment and cleaning up:

For all waste handling 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

Control parameters

CAS No.	ACGIH	NIOSH	OSHA
1313-13-9	N/A	N/A	N/A
7439-93-2	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.



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Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Colour:	Black.
Physical State:	Prismatic.
Odour:	Not available.
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	6.0V
Electric capacity	2600mAh
Aggregate lithium content	1.36g

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.



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Section 11 - Toxicological Information

Acute Toxicity:

CAS No.	LC50/LD50
1313-13-9	No data available.
7439-93-2	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.



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Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

Section 14 - Transport Information

UN or ID Number	
IATA	UN3090
IMDG	UN3090
Model Regulation	UN3090
Proper Shipping Name/Description	
IATA	Lithium metal batteries
IMDG	LITHIUM METAL BATTERIES
Model Regulation	LITHIUM METAL BATTERIES
Class or Div. (Sub Hazard)	
IATA	9
Packing Group	
IATA	N/A
IMDG	N/A
Model Regulation	N/A
Hazard Label	
IATA	
IMDG	N/A
Model Regulation	N/A
Environmental hazards	
Marine pollutant:	No
IMDG EmS:	F-A. S-I
Special precautions for user	No information available.

Transport information: The Lithium manganese dioxide battery M950538 has passed the test UN38.3, according to the report ID: MPITZY2L677007U5.

According to the special provision 188 of IMDG (40-20) or the special provision 188 of <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (22nd), the goods are not subject to other provision of this code.

Weight exceeds the standard. The goods are packaged according to the packaging Instruction 968

PONY 谱尼测试
Pony Testing International Group

Hotline 400-819-5688 www.ponytest.com

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

北京实验室: (010)83055000 哈尔滨实验室: (0451)58627755 内蒙古医学实验室: (0471)3591511 武汉实验室: (027)83997127
北京医学实验室: (010)62450233-8010 黑龙江医学实验室: (0451)58603455 太原实验室: (0351)7555722 武汉医学实验室: (027)85446975
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青岛医学实验室: (0532)88706866 新疆实验室: (0991)6684186 上海实验室: (021)64851999 宁波实验室: (0574)87977185
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天津医学实验室: (022)23607888 西安实验室: (029)89608785 苏州实验室: (0512)62997900 深圳实验室: (0755)26050909
长春实验室: (0431)80530198 西安创尼实验室: (029)81123093 苏州汽车安全带及儿童安全座椅碰撞实验室: (0512)62997900 深圳医学实验室: (0755)26050909
吉林医学实验室: (0431)80529700 西安德威实验室: (029)62886819 苏州医学实验室: (0512)62997900 广州实验室: (020)89224310
大连实验室: (0411)87336618 西安医学实验室: (029)89608785 武汉车附所: (027)82318175 南宁实验室: (0771)5518818
大连医学实验室: (0411)87336618 呼和浩特实验室: (0471)3450025 武汉车附所: (027)82318175 厦门实验室: (0592)5568048



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Instruction 968 section IA of IATA DGR 63rd Edition for transportation, Cargo aircraft only.

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

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

Section 15 - Regulatory Information

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

CAS No.	TSCA	IECSC	DSL/NDL	EINECS/ ELINCS/ NLP
1313-13-9	Listed	Listed	Listed DSL	Listed
7439-93-2	Listed	Listed	Listed DSL	Listed

Section 16 - Other Information

Issue Date: 2021-12-16

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)



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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);
 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);

End of report