

No.SET2022-00416

MSDS Report

Client unit AIMS POWER

Name of sample LFP12V104A | LFP12V135A | LFP12V300A

Address



Tested by:	<i>Chilam</i>	Checked By:	<i>Renee</i>	Approved By:	<i>Lin Jian</i>
Date:	Jan 14,2022	Date:	Jan 14,2022	Date:	Jan 14,2022

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CCIC-SET/TRF:DC 009(2021-11-17)

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1 Identification of product and company

Product name: Rechargeable LiFePO₄ Battery
Part No.: LFP12V104A LFP12V135A LFP12V300A
Manufacturer/ Producer: Aims Power **Address:** 9550
Gateway Drive
Post Code: 89521
Telephone 775.359.6703
Fax:
Mail:
MSDS code: SET2022-00416

2 Hazards identification

Emergency Overview: May explode in a fire, which could release irritant gas.

Primary routes of entry:

Skin contact: No known significant effects or critical hazards under normal use. Contact with damaged batteries may cause burns.

Eye contact: No known significant effects or critical hazards under normal use. Contact with damaged batteries may cause burns.

Inhalation: Inhalation of vapors or fumes released due to heat, or a large number of leaking batteries may cause respiratory and eye irritation.

Ingestion: Ingestion of product contents may cause mouth, throat and intestinal burns and damage.

**3 Composition/information on ingredients****Chemical characterization:**

Chemical composition	CAS CAS No.	in % by weight	EC EC No.
Lithium Iron Phosphate	15365-14-7	23.0%	695-690-9
Electrolyte	21324-40-3	13.2%	203-291-4
Copper	7440-50-8	6.7	231-159-6
Graphite	7782-42-5	11.5%	231-072-3
Aluminum	7429-90-5	5.5%	231-955-3
Polyethylene	9002-88-4	2.0%	202-510-0
Steel	--	38.1%	203-572-1

Abbreviation:

CAS: Chemical Abstract Service

EC: European Inventory of Existing Commercial chemical Substances

NA = Not apply.

4 First aid measures

Skin contact: If the battery is leaking and the contained material contacts the skin, remove contaminated clothes quickly and rinse the skin with plenty of water at least 15 minutes. If irritation or pain persists, get medical aid at once.

Eyes contact: If the battery is leaking and the contained material contacts the eyes, flush the eyes with plenty of water or saline water at least 15 minutes. Get medical aid at once.

Inhalation: If the battery is leaking, remove to fresh air immediately. Keep the respiratory tract smooth. Use oxygen if available. Get medical aid.



Ingestion: If the battery is leaking and the contained material is ingested, rinse mouth and surrounding area with clear water at once. Get medical aid at once.

5 Fire fighting measures

Danger characteristic: Products may burst and release hazardous decomposition products when exposed to a fire situation.

Hazardous combustion products: Carbon monoxide, carbon dioxide, metal oxide, irritate fume, etc.

Fire-Fighting method & media: The staff must be equipped with filter mask (full mask) or isolated breathing apparatus. The staff must wear the clothes which can defense the fire and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible. Spraying water on the containers in the fireplace to keep them cool until finish extinguishment. Media: hazy water, foam, powder, CO₂, sandy clay.

6 Accidental release measures

Disposal methods:

1. Rapid evacuation leakage pollution area personnel to safe areas, and isolation, strictly limited access;
2. Provide adequate protection and ventilation equipment;
3. Cleaning the spillage with the method does not produce dust, collect the leakage in a suitable labeled containers much as possible;
4. In a safe condition, choose appropriate ways to prevent or reduce leakage, for example use sand or clay ring-fence leakage, possible cut off leakage source, avoid into sewer or other enclosed spaces;
5. Cut off the source of leakage as much as possible, avoid entering sewers or other confined space;
6. If a large number of leakage, collect and recycle leakage to suitable and indicative covered container, and shipped to a special waste disposal site disposal.

Waste treatment methods: All waste must be referring to the United Nations, national and local regulations



for disposal.

7 Handling and storage

Handling: Job site should keep ventilation. Keep away from heat. Sealed container when not using. Reduce dust accumulation and generation. Avoid eye contact. Avoid breathing dust. Empty containers will contain this chemical residue. Don't damage the empty container.

Storage: Stored in a low temperature, dry, well-ventilated environment. Avoid direct sunlight. Store away from food and water, wash your hands thoroughly before eat bread or drink water. Far from taboo object, such as strong oxidizer, strong acid. Keep away from fire and heating sources. Equipped with corresponding varieties and number of fire equipment. Storage areas should be equipped with leakage emergency treatment equipment and suitable for accept materials.

8 Exposure controls and personal protection

Monitoring method: No data available.

Engineering controls: Ensure vapor concentration in the workshop under the requirements of existing OSHA.

Respiratory system safeguard: Exceed the standard concentration in air, must wear self-priming filter type gas mask (half mask), emergency rescue or evacuation, should wear air respirator.

Eye safeguard: If necessary, wear chemical safety protective glasses.

Body safeguard: Wear anti-static clothes.

Hand safeguard: Wear glove.

Else safeguard: No smoking at job site. Avoid prolonged and repeated contact electrolyte.



9 Physical and chemical properties:

9.1 Physical and chemical properties:

Boiling Point: No Data

Relative vapor density:

Saturated vapor pressure: No Data

Rated capacity:104Ah 135Ah 300Ah

Rate Energy: 1280Wh 1728Wh 3840 Wh

10 Stability and reactivity

Stability: Stable under ordinary conditions of use and storage.

Avoid contact conditions: No data available

Prohibited content: Strong oxidizer, strong acids

Aggregate harm: No data available

Decomposition product: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

toxicology influencing information (Normal usage)

Acute toxicity: No known significant effects or critical hazards.

Irritation: Part of composition may cause sensitization by Inhalation and skin contact.

Chronic toxicity: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Reproduction toxicity: No known significant effects or critical hazards.

Medical conditions generally aggravated by exposure: In the event of exposure to internal contents moderate to server irritation, burning and dryness of the skin may occur, Target organs nerves, liver and kidneys.

**12 Ecological information**

Ecotoxicity: No known significant effects or critical hazards.

Biological degradability: No known significant effects or critical hazards.

Non-living things degradability: No known significant effects or critical hazards.

Biology gathering and biology accumulate: No known significant effects or critical hazards.

13 Disposal considerations

Waste disposal methods: All waste must be referring to the United Nations, national and local regulations for disposal, the dumped or discarded material may be regard as a restrictive waste referring to local regulations. Cleaned containers containing this substance were also required treatment. Comply with waste law. Atmospheric Pollution Act and water pollution law for disposal.

14 Transport information

Number of dangerous goods: 9 **UN Number:**

3480 , 3481, 3171

Transport Attentions:

The goods shall be complied with the requirements of 63rd DGR Manual the Packing Instruction 952, 965-967, Section I or IA (2022 edition), including the passing of the UN38.3 test, And also complies with the Special Provision 188 and 230 of IMDG CODE (Amdt.40-20) 2020 Edition.

The batteries should be securely packed and protected against short-circuits. Examine whether the package of the containers are integrate and tighten closed before transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles. Don't put the goods together with oxidizer and chief food chemicals. The transport vehicle and ship must be cleaned and sterilized otherwise it is not allowed to assemble articles. During transport, the vehicle should prevent exposure, rain and high temperature. For stopovers, the vehicle should be away from fire and heat sources. When transported by sea, the assemble place should keep away from bedroom and kitchen, and isolated from the engine room, power and fire source. Under the condition of Road Transportation, the driver should drive in accordance with regulated route, don't stop over in the residential area and congested area. Forbid to use wooden, cement for bulk transport.

**Law information**

Dangerous Goods Regulations
Recommendation on the Transport of Dangerous Goods Model Regulations
International Maritime Dangerous Goods
Technical Instructions for the Safe Transport of Dangerous Goods
Classification and code of dangerous Goods
Occupational Safety and Health Act(OSHA)
Toxic Substance Control Act(TSCA)
Consumer Product Safety Act(CPSA)
Federal Environmental Pollution Control Act(FEPCA)
The Oil Pollution Act(OPA)
II(302/311/312/313)»
Superfund Amendments and Reauthorization Act Title II (302/311/312/313)(SARA)
Resource Conservation and Recovery Act(RCRA)
Safety Drinking Water Act(CWA)
California Proposition 65
Code of Federal Regulations(CFR)
In according with all Federal, State and local laws.

16 Other information

The above information is correct, but does not contain all of the information and only used as a guide. The information in this document is based on our current knowledge, it applies to this product as for the correct safety tips. The information does not guarantee the properties of this product. Our company is not responsible for any damages caused by the products.

*****END OF REPORT *****