

GALLEON INSTRU TECH PVT. LTD.

MATERIAL SAFETY DATA SHEET

Revision Date: 10/06/2025

MSDS

Print Date: 10/06/2025 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name: Li-Iron Phosphate Battery
14.8V 5000mAh

Company Information:-

Trade Name: Galleon Instru Tech Pvt. Ltd.

Trade Address: Gala No.93/B2, 4th floor,Gami Industrial Park
Pawane MIDC , Navi Mumbai - 400710.

Phone Number: +91 99230 20020

Email: info@galleon.co.in

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)



Warning

Label elements

Hazards pictogram(s):

Singal word:

Hazards Statement(s):

H302 Harmfull if swallowed

H315 causes skin irritation

H319 causes serious eye irritation

H335 May causes respiratory irritation

Prevention:

P264 Wash skin and clothing thoroughly after handling.

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

P280 Wear protective gloves, eye protection, face protection.

P261 Avoid breathing Dust, fume, gas, mist, vapors, spray.

P271 Use only outdoors or in a well-ventilated area

Responses:

P301+P312 IF Swallowed: Call a Poison Center if you feel unwell.

P330 Rinse Mouth

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



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P321 Specific treatment (See additional emergency instructions).

P333 + P313 If skin irritation or rash occurs: Seek medical attention.

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: 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 Contents handling to approved waste treatments.

SECTION 3: Composition/information on ingredients

3.1 Composition:-

Nominal Voltage	(Battery Pack)	14.8 V	
Nominal Capacity	(Battery Pack)	5000mAh	Typical
No of Cell		4 Cells	L-37000 type
Individual Cell Capacity		14.8V 5000mAh	L-37000 type
Discharge End Voltage		-	-
Charge Upper Limit Volt		-	-
Charge Current	Standard Charge Current	-	-
Discharge Current	Standard Discharge Current	-	-
	Max Current (Peak)	-	-
Operation Temperature	Charge	-	-
	Discharge	-	-
Storage Temperature	in one month	-	-
	in three month	-	-

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of eye contact:

If eye contact with contents of an open battery occurs, immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes while holding the eyelids open. Neutral saline solution may be used as soon as it is available. If necessary, continue flushing during transport to emergency care facility. Take care not to

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rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to an emergency care facility.

In case of inhalation:

If contents of an opened battery are inhaled, remove source of contamination or move victim to fresh air. Obtain medical advice

In case of skin contact:

If skin contact with contents of an open battery occurs, as quickly as possible remove contaminated clothing, shoes and leather goods. Immediately flush with lukewarm, gently flowing water for at least 30 minutes. If irritation or pain persists, seek medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

In case of ingestion:

If ingestion of contents of an open battery occurs, never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. **DO NOT INDUCE VOMITING.** Have victim drink 60 to 240 mL (2-8oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Quickly transport victim to an emergency care facility

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry powder is applicable for burning lithium ion batteries. Metal fire extinction Powder, rock salt or dry sand are suitable if only a few batteries are involved.

Extinguishing media with Limited suitability: Carbon dioxide (CO₂) is only applicable for incipient fire. Do not use water.

Special Protection equipment During fire-fighting: Contamination cloth including self-contained breathing apparatus.

Attention:

Do not let used extinguishing media penetrate into surface water or ground water. If necessary, thicken water or foam with suitable solids. Dispose of properly.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment adapted to the situation (protection gloves, face protection, breathing protection)

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6.2 Environmental precautions

Bind released ingredients with powder (rock salt, sand). Dispose of according to the local law and rules. Avoid leached substances to penetrate into the earth, canalization or water.

6.3 Methods and material for containment and cleaning up

If battery casing is dismantled, small amounts of electrolyte may leak. Package the battery tightly including ingredients together with lime, sand or rock salt. Then clean with water.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Do not crush, pierce, short (+) and (-) battery terminals with conductive (i.e. metal) goods, which would end up into excessive heating. Do not directly heat or solder. Do not throw batteries into fire or water. Do not mix batteries of different types and brands. Do not mix new and used batteries. Keep batteries in non conductive (i.e. plastic) trays. Do not disassemble, mutilate or mechanically abuse cells and batteries. Avoid deep discharge. Follow manufacturers recommendations regarding maximum recommended currents and operating temperature range.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool (preferable below 30°C), well ventilated area, away from moisture, sources of heat, open flames, food and drink. Elevated temperatures can result in shortened battery life. Temperatures above 70°C may result in battery leakage and rupture. Keep adequate clearance between walls and batteries. Since short circuit can cause burn, leakage and rupture hazard, keep batteries in original packaging until use and do not jumble them. Preferred storage at 50% of nominal battery capacity. A fire alarm is recommended in case of storage of large amounts.

Packaging materials: keep batteries in original packaging until use and do not jumble them.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- **Engineering Control(s):** Use local exhaust ventilation or other engineering controls to control sources of dust, mist, and fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.
- **Hand protection:** Wear neoprene or natural rubber material gloves if handling an open or leaking battery.
- **Eye protection:** Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.
- **Body protection:** Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery.
- **Respiratory protection:** Not necessary under normal conditions.
- **Other Protective Equipment:** Have a safety shower and eye wash fountain readily available in the immediate work area.

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- **Hygiene Measures:** Do not eat, drink, or smoke in work area. Maintain good housekeeping.

SECTION 9: Physical and chemical properties

Appearance	: Solid
Color	: Black
Odor	: Not Applicable
pH	: Not Applicable
Flash point	: Not Applicable
Specific Gravity	: Not Applicable
Melting point/freezing point	: Not Applicable
Boiling point	: Not Applicable
Solubility	: Not Applicable
Flammability	: Not Applicable

SECTION 10: Stability and Reactivity

10.1 Reactivity: No reaction known with water.

10.2 Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid: Do not subject Cylindrical Lithium Ion Rechargeable Cell to mechanical shock. Vibration encountered during transportation does not cause leakage, fire or explosion. Do not disassemble, crush, short or install with incorrect polarity. Avoid mechanical or electrical abuse.

10.5 Incompatible materials: Not Available.

10.6 Hazardous decomposition products: This material may release toxic fumes if burned or Exposed to fire.

SECTION 11: Toxicological information

Signs & symptoms: None, unless battery ruptures. In the event of exposure to internal contents, Corrosive fumes will be very irritating to skin, eyes and mucous membranes.

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Overexposure can cause symptoms of non-fibrotic lung injury and membrane Irritation.

Skin corrosion/irritation: Skin Irritation.

Eye Contact: Not expected to present a significant eye contact hazard under anticipated Conditions of Normal use. The following symptoms may occur: redness, itching, Tears

Inhalation: Lung irritant

SECTION 12: Ecological Information

General Note: Water hazard class 1(Self-assessment): slightly hazardous for water. Do not allow undiluted Product or large quantities of it to reach ground water, water course or sewage system..

Degradability: No Data Available.

Bioaccumulation: No Data Available.

Mobility (in soil): No data available

SECTION 13: Disposal Consideration

13.1. Waste treatment methods: Disposal must be made according to official regulations.

Product/Packaging disposal recommendations: Avoid release to the environment. Dispose of empty containers and wastes safely. Safe handling: see section 7. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

SECTION 14: Transport information

This report applies to by sea, by air and by land; Are tested according to Section 38.3 of the Seventh revised edition of the Manual of Test and Criteria (ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3) ; Lithium ion battery was protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit; The Lithium ion Battery according to Section II/IA/IB of PACKING INSTRUCTION 965/ 966 /967 of the 2024 IATA Dangerous Goods regulations 65th Edition may be transported and applicable U.S.DOT regulations for the safe transport of Li-ion Battery. More information concerning shipping, testing, marking and packaging can be obtained from label master at <http://www.labelmaster.com/>. The packaging shall be adequate to avoid mechanical damage during transport,

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handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture. The package must be handled with care and that a flammability hazard exists if the package is damaged; Each package must be labelled with a Li-ion Battery handling label or in addition to the Class 9 hazard label. With regard to transport, the following regulations are cited and considered:

- The International Civil Aviation Organization (ICAO) Technical Instructions.
- The International Air transport Association (IATA) Dangerous Goods Regulations. UN number of lithium battery: UN3480 or UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries contained in equipment or Lithium ion batteries packed with equipment;

UN Classification (Transport hazard class): Non dangerous;

Marine pollutant (Y/N): N;

- The International Maritime Dangerous Goods IMDG Code (Amdt. 41-22) 2022 Edition.

For lithium-ion batteries by sea, provided that packaging is strong and prevent the products from short-circuit. UN number of lithium battery: UN3480 or UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries contained in equipment or Lithium ion batteries packed with equipment;

SECTION 15: Regulatory Information

Regulations specifically applicable to the product: Wastes Disposal and Public Cleaning Law [Japan] Law for Promotion of Effective Utilization of resources [Japan] US Department of Transportation 49 Code of Federal Regulations [USA]

OSHA hazard communication standard (29 CFR 1910.1200)

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Section 16 - Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, **Galleon Instru Tech Pvt. Ltd.** makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required. The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

Prepared By: Quality Engineer

Approved By: Quality Manager

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