Safety Data Sheet

This Safety Data Sheet has been prepared in accordance with OSHA Hazard Communication Standard (29 CFR 1910.1200).

Issue Date: March 6, 2026

Revision Number: 1.0

Prepared By: Grand Teton Energy Systems, Inc.

Section 1 - Identification

1.1 Product Identifier

Item	Information
Primary Product	K2B24V50EB
Product Description	Rechargeable Lithium-Ion Battery Pack (LFP) – 24 V, 50 Ah
Associated Product Codes / SKUs	K2B24V50EB (158-1634B; 158-1634BA) – Battery (8s12p with circuit) 61860335000 – PKG-NEXUS LANE MACHINE W/ BATTERY

1.2 Recommended Use and Restrictions on Use

Recommended Use:

Industrial and commercial equipment applications.

Restrictions:

- No electrolyte handling by end users.
- Do not open, crush, short-circuit, incinerate, puncture, or overcharge.

1.3 Manufacturer Details

Item	Information
Manufacturer	Grand Teton Energy Systems, Inc.
Address	275 Stationary Place, Rexburg, ID 83440
Email	info@grandtetonbattery.com
Phone (For General Information)	+1 (208) 421-9931
Emergency Phone	CHEMTREC 1-800-424-9300

Section 2 - Hazard(s) Identification

2.1 Classification

This product is a manufactured article. Under normal conditions of use, it is not classified as hazardous under OSHA 29 CFR 1910.1200.

2.2 Label Elements

Label Element	Status
Hazard Pictograms	Not required
Signal Word	Not required
Hazard Statements	Not required
Precautionary Statements	Not required

2.3 Hazards Not Otherwise Classified (HNOC)

If damaged, crushed, short-circuited, or exposed to fire:

- Flammable electrolyte may be released
- Risk of fire or explosion
- Thermal runaway may occur
- Vapors may irritate skin, eyes, and respiratory tract
- Electrical shock hazard if terminals exposed

Section 3 - Composition/Information on Ingredients

3.1 Substance

Not applicable.

3.2 Mixture (Contained Within Sealed Battery Cells)

Component	CAS Number	Approximate %
Lithium Iron Phosphate	15365-14-7	15-30%
Graphite	7782-42-5	10-25%
Organic electrolyte	Proprietary	10-20%
Copper	7440-50-8	5-15%
Aluminum	7429-90-5	5-15%
Other inert materials	—	Balance

Exposure to hazardous components is not expected under normal use.

Section 4 - First-Aid Measures

4.1 Description of First-Aid Measures and Important Symptoms

Exposure Type	First-Aid Instructions	Important Symptoms
Inhalation	If vapors are released from a damaged battery, move the affected person to fresh air immediately. Provide oxygen if breathing is difficult.	Irritation of the respiratory tract. Treat symptomatically.
Skin Contact	If electrolyte contacts skin, remove contaminated clothing and rinse with water for at least 15 minutes.	Skin irritation. Seek medical attention if irritation persists.
Eye Contact	Flush eyes with water for at least 15 minutes. Remove contact lenses if present and easy to do.	Eye irritation. Seek immediate medical attention.
Ingestion	Do not induce vomiting. If conscious, rinse mouth with water.	Gastrointestinal irritation. Seek immediate medical attention.

Section 5 - Fire-Fighting Measures

5.1 Suitable Extinguishing Media

Water spray, foam, carbon dioxide (CO_2), dry chemical powder.

5.2 Specific Hazards

Battery may:

- Ignite or explode when exposed to excessive heat or fire.
- Emit hazardous fumes including metal oxides and toxic gases.

5.3 Special Protective Equipment

Wear self-contained breathing apparatus (SCBA) and full protective gear.

Section 6 - Accidental Release Measures

6.1 Personal Precautions

Avoid contact with internal components if the battery is damaged. Wear protective gloves and eye protection when handling damaged batteries.

6.2 Environmental Precautions

Prevent released materials from entering drains, soil, or waterways. Avoid uncontrolled discharge to the environment.

6.3 Containment and Cleanup

Collect damaged batteries and place in a non-combustible container. Absorb released electrolyte with inert material and dispose of properly.

Section 7 - Handling and Storage

7.1 Precautions for Safe Handling

Avoid crushing, puncturing, short circuit, or overcharging.

7.2 Conditions for Safe Storage

Store in cool, dry, well-ventilated area. Keep away from heat sources.

7.3 Specific End Use

Industrial equipment battery pack.

Section 8 - Exposure Controls / Personal Protection

8.1 Control Parameters

No exposure limits established for the product. Exposure to internal components is not expected under normal use.

8.2 Personal Protective Equipment

No PPE required under normal conditions. If damaged, wear gloves and safety glasses. Ensure adequate ventilation.

Section 9 - Physical and Chemical Properties

Property	Value
Appearance	Solid rectangular battery
Color	Black
Odor	Odorless
Flash point	Not applicable

Flammability	Not applicable
Solubility	Not applicable

Section 10 - Stability and Reactivity

Stable under normal conditions.

- Avoid excessive heat, crushing, puncture, short circuit, or fire.
- Hazardous decomposition may produce metal oxides and toxic gases.

Section 11 - Toxicological Information

No exposure expected under normal use. Released internal materials may cause skin, eye, and respiratory irritation.

Section 12 - Ecological Information

No environmental hazards under normal conditions of use.

Section 13 - Disposal Considerations

Dispose of in accordance with federal, state, and local regulations.

- Do not dispose of in household waste.
- Do not incinerate.
- Recycling is recommended.

Section 14 - Transport Information

Item	**Information**
Label for Conveyance	Lithium Battery Label
UN Number	When shipped alone: UN 3480 When packed with equipment: UN 3481
Transport Hazard Class	Class 9
Packing Instructions	965 / 966 (Packing Group II)

	967
Marine Pollutant	No
UN Proper Shipping Name	Lithium-Ion Batteries Lithium-Ion Batteries Packed with Equipment Lithium-Ion Batteries Contained in Equipment
ICAO/IATA	May be shipped by air in accordance with the International Civil Aviation Organization (ICAO) Technical Instructions or the International Air Transport Association (IATA) Dangerous Goods Regulations (DGR), 66th Edition, Packing Instruction 965 (Section IA) or Packing Instructions 966–967, as applicable.
IMDG Code	International Maritime Dangerous Goods Code IMDG Code (Amdt 42-24)
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
Additional Information	The dangerous goods regulations require that each battery design be subject to tests contained in Section 38.3 of the UN Manual of Tests and Criteria prior to being offered for transport.

Section 15 - Regulatory Information

This product is a manufactured article under OSHA 29 CFR 1910.1200.

All components are listed on or exempt from the TSCA Inventory.

Section 16 - Other Information

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