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SAFETY DATA SHEET

Section 1 -- Product and Company Identification

PRODUCT IDENTIFICATION

Product Name: Rechargeable Li-Ion Battery Pack

Product Model No.: X1200XX(XX means A,B,C,D etc), 1259621

Inventus Part No.: 6540.101

COMPANY NAME:

Inventus Power, Inc.

1200 Internationale Parkway, Woodridge IL 60517

Emergency telephone number:

Inside the US: 1-800-424-9300

Outside the US: 1-703-527-3887

MANUFACTURING SITE:

Name: Inventus Power Mexico S.A de C.V. Address1: Calle Guerrero Negro No. 9985 Parque Industrial Pacifico,Tijuana Baja California 22643 Mexico Telephone number: +52 664 231 4832 Emergency telephone number: +52 664 231 4832



Section 2 -- Composition / Information on Ingredients

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Battery Product Matrix

| Inventus Power | Customer | Pack | Pack Nominal | Pack Nominal | Pack Energy (Wh) |
|----------------|----------|---------------|--------------|---------------------------|------------------------------|
| P/N | P/N | Configuration | Voltage V | Capacity (Ah) | |
| 6540.101 | 1 | 10S4P | 36 | Rated: 10 Nominal :9.7 | Rated 360.0 Nominal 349.2 |

Chemical Composition:

| Component | Material | Formula | CAS Number | Percentage range (wt %) |
|-----------------------|---|-------------------|-------------|----------------------------|
| Positive Electrode | Lithium Nickel Cobalt manganese Oxide | LiNiMnCoO2 | 182442-95-1 | 25~33% |
| Negative Electrode | Graphite | С | 7440-44-0 | 15~25% |
| | Ethylene Carbonate – Solvent | $C_3H_4O_3$ | 96-49-1 | 2~5% |
| Electrolyte | Diethyl Carbonate – Solvent | $C_5H_{10}O_3$ | 105-58-8 | 2~5% |
| | Lithium Hexafluroph osphate – Salt | LiPF ₆ | 21324-40-3 | 15-22% |
| | Aluminium | AI | 7429-90-5 | 5% |
| Outer case | Cupper | Cu | 7440-50-8 | 5% |
| | Iron | Fe | 7439-89-6 | 5% |



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Section 3 -- Hazards Identification

Under normal usage, there is no contact with electrolyte and no hazard exists.

If exposed to high temperature or fire, cell may leak electrolyte and in extreme cases explode. The vented gas may contain among others Hydrogen Fluoride.

Section 4 -- First Aid

Under normal operating condition, contents of the cells are in sealed (polymer pouch/metal can or cylinder) condition and pose no threat to the user.

Exposure to the cell internal content happens under abusive conditions.

Inhalation: Contents of open battery may cause respiratory irritation. Move to fresh air immediately and seek medical attention.

Skin: Contents of open battery may cause skin irritation. Wash skin with copious amount of soap and water.

Eye: Contents of open battery may cause eye irritation. Flush eyes immediately with water for at least 15 minutes and seek medical attention.

Ingestion: Seek medical attention immediately. Induce vomiting.

Section 5 -- Fire Fighting

In case of Fire use CO2 or CLASS D fire extinguisher

In case battery burns with other combustible, use corresponding fire extinguisher. Corrosive fumes may be present during fire. Use protective equipment (gloves, breathing apparatus, goggles etc.)

Gases from the burning fire will include Hydrogen Fluoride, Carbon oxides, Hydrocarbons among others.

Section 6 -- Accidental Release

Battery material is enclosed in either metal casing or in laminate and does not release easily under normal usage. Under abuse condition such as puncture, high heat exposure, electrical abuse electrolyte containing vinyl chloride salt in organic solvent may leak out. See section 4 for first aid measure. Seek medical attention.



Section 7 -- Instructions on Safe Handing and Use

Storage: Store within the recommended temperature limit of the battery (read instruction manual for specific limits). Do not expose to high temperature (60°C/140°F). Avoid short circuit of the battery. Short circuit of the battery may cause release of gas and may pose burn hazard.

Handling: Do not disassemble, crush or otherwise abuse the battery. Do not open the battery. Charge: Charge only with dedicated/specific chargers designed for this battery

Discharge: Discharge within the temperature limits of the battery detailed in the specification.

Disposal: Dispose/Recycle according to the applicable municipal, state and federal regulations. Do not dispose in household or commercial waste bin.

Caution: This battery when abused may pose fire, explosion and severe burn hazard. Handle with caution.

Section 8 -- Exposure Control and Special Protection Information

Control parameters

| e on a or para | | | | |
|----------------------------------|-----------------------|---|-----|--|
| Common chemical name / | | ACGIH (2009) | | |
| General name | | TLV-TWA | BEI | |
| Lithium transition metal oxidate | | 0.02mg/m ³ (as cobalt) * 0.2mg/m ³ (as manganese) * | - | |
| | | 0.2 mg/m ³ (as nickel) * | | |
| Aluminum | | 10mg/m ³ (metal coarse particulate) 5mg/m ³ (inflammable powder) | - | |
| | | 5mg/m ³ (weld fume) | | |
| Carbon | (Natural graphite) | 2mg/m ³ | - | |
| | (Artificial graphite) | (inhalant coarse particulate) | | |
| Copper | | 0.2mg/m ³ (fume) | - | |
| | | 1.0mg/m ³ (a coarse particulate, Mist) | | |
| Organic electrolyte | | - | - | |

ACGIH: American Conference of Governmental Industrial Hygienists, Inc.

TLV-TWA: Threshold Limit Value-Time Weighted Average concentration

BEI: Biological Exposure Indices

Eye Protection, gloves, ventilation, are not needed under normal usage

Use safety goggles, acid resistant safety gloves, air mask if exposed to internal content of the cell/battery.



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Section 9 -- Physical and Chemical Properties

Appearance: Solid Form Factor: Mostly Rectangular shaped packs Odor: N/A PH: N/A Flash Point: N/A Density: N/A Solubility: Insoluble in Water

Section 10 -- Stability and Reactivity

Not reactive under normal condition of usage.

Note safe handling procedure.

Avoid high temperature and mechanical abuse.

Read label and manufacturer instruction before usage.

Section 11 -- Toxicological Effect

Acute Toxicity:

Not known for Lithium Cobaltate, Aluminum, and Graphite.

Copper causes gastrointestinal disturbance in 60-100mg sized coarse particulate. TDLo-Rabbit 375mg/kg

Organic electrolyte LD50, oral - -Rat 2000mg/kg or more

Local Effects:

Not known for Lithium Cobaltate, Graphite and Organic Electrolyte.

Aluminum has no known local effects.

Copper in coarse particulate is eye irritant

No known carcinogen in this product.

Section 12 -- Ecological Information

Battery is not biodegradable. Do not dispose in landfill. Please follow local regulations regarding recycle and disposal.



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Section 13 -- Disposal Information

Dispose/Recycle according to the applicable municipal, state and federal regulations. Do not dispose in household or commercial waste bin.

Section 14 -- Transportation Information

Proper Shipping Name: Lithium Ion Batteries.

The UN number for the battery pack is UN3480, and it also can be UN3481 when the battery pack contained in the equipment or packed with the equipment.

The battery meets the requirements of the test in the United Nations (UN) Manual of Tests and Criteria, Part III, sub-section 38.3

DOT: Refer to Attachment ERG 2020 guide 147 (Lithium Ion battery Guide)

IMDG:Refer to IMDG/Ocean Transport ENS F-A, S-I

IATA: Refer to IATA-ICAO/Air Transport ERG CODE 12FZ

When large amount of batteries is transported by ship, vehicle and railroad, avoid high temperature and dew condensation.

Avoid transportation which may cause damage of package.



Section 15 -- Regulatory Information

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The transport of rechargeable lithium-ion batteries is regulated by various bodies, (IATA, IMO, US-DOT)

That follow the United Nations "Recommendations on the Transport of Dangerous Goods. Regulations specifically applicable to the product:

ICAO 2021/2022 Edition of ICAO Technical Instructions for the Safety Transport of Dangerous Goods by Air

IMO IMDG Amendment 40-20 2020 Edition. And the battery pack complies with the packing instruction 903 of the IMDG CODE.

IATA 63rd Edition (2022) of the IATA Dangerous Goods Regulations (DGR)

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US Department of Transportation DOT (49 CFR 100-185), (USA)

OSHA hazard communication standard (29 CFR 1910.1200)

Hazardous

V <u>Non-Hazardous</u>

This battery meets the requirements of Packing Instructions 965, section IA of the IATA regulation.

Section 16 -- Other Information

The information contained in this Safety data sheet is based on the present state of knowledge and current legislation.

This safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.