



Safety Data Sheet

Section 1-Chemical Product and Company Identification

Product Name:	Hand-held lithium-ion jump starter
Model No. :	JP-12-10000
Ratings:	8000mAh 3.7V 29.6Wh
Weight:	420g
Manufacturer:	VANAIR MANUFACTURING INC
Address:	10896 W, 300N MICHIGAN CITY IN 46360 USA
Tel.:	+1-800-526-8817
Emergency Telephone:	+1 800-424-9300 / +1-703-527-3887
Fax:	219-879-5800

Section 2- Hazards Identification

Preparation hazards and classification:	Not dangerous with normal use. Do not dismantle, open or shred lithium-ion Battery. Exposure to the ingredients contained within or their ingredients products could be harmful.
Appearance, Color, and Odor:	Solid object with no odor, no color.
Primary Route(s) of Exposure:	These chemicals are contained in a sealed Aluminum plastic film. Risk of exposure occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, exposure to the electrolyte solution contained within the battery can occur by Inhalation, Ingestion, Eye contact and Skin contact.
Potential Health Effects:	ACUTE (short term): see Section 8 for exposure controls In the event that this battery has been ruptured, the electrolyte solution contained within the battery would be corrosive and can cause burns. Inhalation: Inhalation of materials from a sealed battery is not an expected route of exposure. Vapors or mists from a ruptured battery may cause respiratory irritation. Ingestion: Swallowing of materials from a sealed battery is not an expected route of exposure. Swallowing the contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. Skin: Contact between the battery and skin will not cause any harm. Skin contact with



	contents of an open battery can cause severe irritation or burns to the skin. Eye: Contact between the battery and the eye will not cause any harm. Eye contact with contents of an open battery can cause severe irritation or burns to the eye. CHRONIC (long term): see Section 11 for additional toxicological data.
Medical Conditions Aggravated by Exposure:	Not applicable
Reported as carcinogen:	Not applicable

Section 3- Composition/Information on Ingredient

Chemical Composition	Molecular Formula	CAS No.	Weight (%)
Lithium Cobalt Oxide	LiCoO ₂	12190-79-3	33.5
Aluminum	Al	7429-90-5	1.68
Graphite	C	7782-42-5	17.8
Copper	Cu	7440-50-8	14.65
Phosphate(1-), hexafluoro-, lithium	LiPF ₆	21324-40-3	14.3

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

Section 4 - First Aid Measures

Inhalation:	If contents of an opened battery are inhaled, remove source of contamination or move victim to fresh air. Obtain medical advice.
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.
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 rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to an emergency care facility.



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 (2-8 oz.) 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.
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Section 5 –Fire Fighting Measures

Flammable Properties	In the event that this battery has been ruptured, the electrolyte solution contain within the battery would be flammable. Like any sealed container, battery cells may rupture when exposed to excessive heat; this could result in the release of flammable or corrosive materials.
Suitable extinguishing Media	Use extinguishing media suitable for the materials that are burning.
Unsuitable extinguishing Media	Not available
Explosion Data	Sensitivity to Mechanical Impact: This may result in rupture in extreme cases Sensitivity to Static Discharge: Not Applicable
Specific Hazards arising from the chemical	Fires involving lithium-ion Battery can be controlled with water. When water is used, however, hydrogen gas may evolve. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended to extinguish the fire.
Protective Equipment and precautions for firefighters	As for any fire, evacuate the area and fight the fire from a safe distance. Wear a pressure-demand, self-contained breathing apparatus and full protective gear. Fight fire from a protected location or a safe distance. Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.



Section 6 – Accidental Release Measures

Personal Precautions, protective equipment, and emergency procedures	Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8.
Environmental Precautions	Prevent material from contaminating soil and from entering sewers or waterways.
Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.
Methods and materials for cleaning up	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal.

Section 7 – Handling and Storage

Handling	Don't handling lithium-ion battery with metalwork. Do not open, disassemble, crush or burn battery. Ensure good ventilation/ exhaustion at the workplace. Prevent formation of dust. Information about protection against explosions and fires: Keep ignition sources away- Do not smoke.
Storage	If the batteries are subject to storage for such a long term as more than 3 months, it is recommended to recharge the lithium-ion battery periodically. Storage Temperature Short period less than 3 months: -20~+45°C, 75%RH Max Long period more than 3 months: +5°C~+35°C,75%RH Max Do not storage lithium-ion battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects. Keep out of reach of children. Do not expose lithium-ion battery to heat or fire. Avoid storage in direct sunlight. Do not store together with oxidizing and acidic materials.



Section 8 – Exposure Controls, Personal Protection

Engineering control:	Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.
Respiratory protection:	Not necessary under normal conditions.
Skin and body Protection:	Not necessary under normal conditions. Wear neoprene or nitrile rubber 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.
Hands protection:	Wear neoprene or natural rubber material gloves if handling an open or leaking battery.
Others protection:	Have a safety shower and eye wash fountain readily available in the immediate work area.
Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.

Section 9-Physical and Chemical Properties

Physical State	Form: Solid
	Color: silver
	Odour: Monotony
Upper/lower flammability or explosive limits	Not available.
Solubility in Water:	Insoluble.
Decomposition temperature	Not available.

Section 10 - Stability and Reactivity

Stability	The product is stable under normal conditions.
Conditions to Avoid (e.g. static discharge, shock or vibration)	Do not subject lithium-ion Battery 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.
Hazardous Decomposition Products	This material may release toxic fumes if burned or exposed to fire.



Section 11- Toxicological Information

Irritation	Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur.
Sensitization	Not Available
Neurological Effects	Not Available
Teratogenicity	Not Available
Reproductive Toxicity	Not Available
Mutagenicity (Genetic Effects)	Not Available

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.
Anticipated behavior of a chemical product in environment/possible environmental impace/ecotoxicity	Do not discard lithium-ion battery haphazardly.

Section 13- Disposal Considerations

Product disposal recommendation: Observe local laws and regulations.

Packaging disposal recommendation: Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassembly the battery. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local laws and regulations.

For purpose of protecting environment and human health, do not throw batteries as municipal waste, and sort the batteries for recycling.

Section 14- Transport Information

This report applies to by sea, by air and by land;

The Hand-held lithium-ion jump booster (model: JP-12-4000) has passed the test the UN manual of tests and Criteria, Part III, subsection 38.3, according to the report ID: WSCT-BATT16122750A

The Hand-held lithium-ion jump booster/Cell 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 Hand-held lithium-ion jump booster/Cell according to Section II/Section IB of PACKING INSTRUCTION 965, or Section II of PACKING INSTRUCTION 966~967 of the 2017 IATA Dangerous Goods regulations 58th Edition may be transported. and applicable U.S. DOT regulations for the safe transport of lithium-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, 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;

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.

The International Maritime Dangerous Goods (IMDG) Code.

For lithium-ion batteries by sea, provided that packaging is strong and prevent the products from short-circuit.

Special Provision: International maritime dangerous goods code (IMDG) 188, 230, 310, 348, 957;

Section 15 – Regulatory Information

OSHA hazard communication standard (29 CFR 1910.1200)

Hazardous

Non-hazardous

Section 16 – Additional Information

Additional Information:	The information above is believed to be accurate and represents the best information currently available to us. However, concorde 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.
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