

MSDS

MATERIAL SAFETY DATA SHEET

WPA-415
LITHIUM BATTERY

Rev. : 00

Issue data: 25-10-2015

Report N°: LCS180511036ASD 001

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* The MSDS is prepared based on the information provided by supplier.

Section 1-Chemical Product and Company Identification

Product Name	Li-ion battery
Model	WPA415
Trademark	N/A
Ratings	7.4V, 3000mAh, 22.2WH
Weight	98.2g
Supplier	Capit Performance srl
Supplier address	Via G. Mattei, 45 20020 Arese (MI) - ITALY
Emergency telephone	+39-023533300
Fax	+39-02-33913538

Section 2- Hazards Identification

Emergency overview:	N/A
Classification according to GHS	Not a dangerous substance according to GHS and EC-1907/2006 (REACH), EC-1272/2008 and following Regulation ED-453/2010
Label elements:	
Hazard pictogram(s)	Not available
Signal word	Not available
Hazard statement(s)	Not available
Precautionary statement(s):	
Prevention	Not available
Response	Not available
Disposal	Not available
Environmental hazards:	No relevant information
Important symptoms:	See section 11 for more information

Section 3- Composition Information

Chemical Composition	CAS No.	Weight (%)	Trade Secret
Lithium cobaltate	12190-79-3	15 - 40	*
Graphite	7782-42-5	10 - 30	*
Phosphate(1-), hexafluoro-, lithium	21324-40-3	10 - 30	*
Copper	7440-50-8	7-13	*

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Aluminium	7429-90-5	5-10	*
Nickel	7440-02-0	1-5	*

“ * ” The exact percentage (concentration) of the composition has been withheld as a trade secret.

Section 4- First Aid Measures

Eye contact	Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical aid.
Skin contact	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Seek medical aid.
Inhalation	Remove from exposure and move to fresh air immediately. Use oxygen if available.
Ingestion	Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a doctor.

Section 5- Firefighting Measures

Flash Point	N/A
Auto-Ignition Temperature	N/A
Extinguishing Media	H ₂ O, CO ₂
Special Fire-Fighting Procedures	Self-contained breathing apparatus
Unusual Fire and Explosion Hazards	Cell may vent when subjected to excessive heat, exposing battery contents
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.

Section 6- Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

If the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapours to dissipate. Avoid skin and eye contact or inhalation of vapours. Remove spilled liquid with absorbent and incinerate. If leakage of the battery occurs, the liquid may be absorbed with sand, earth or other inert substance and the contaminated area should be ventilated in the meantime.

Environmental precautions:

Do not allow product to reach the sewage system or any water source.
Inform the relevant authorities in the event of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and clean-up:

If the battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic-lined container. Dispose of according to local law and rules. Avoid leached substances getting into the soil, pipelines or water system.

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Section 7- Handling and Storage

Handling	<p>The battery should not be opened, destroyed or incinerated, since it may leak or rupture and release to the environment the ingredients contained in the hermetically sealed container.</p> <p>Do not short-circuit the terminals or over-charge the battery, force over-discharge or throw into fire.</p> <p>Do not crush or puncture the battery or immerse in liquids.</p>
Storage	<p>Avoid mechanical or electrical misuse. Store preferably in a cool, dry and well-ventilated area, subject to little temperature change. Storage at high temperatures should be avoided.</p> <p>Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.</p>
Other Precautions	<p>The battery may explode or cause burns if dismantled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.</p>

Section 8- Exposure Controls/Personal Protection

Engineering Controls	<p>Use local exhaust ventilation or other engineering methods to control sources of dust, mist, fumes and vapour.</p> <p>Keep away from heat and open flames. Store in a cool, dry place.</p>
Personal Protective Equipment	<p>Respiratory Protection: Not necessary under normal conditions.</p> <p>Skin and body Protection: Not necessary under normal conditions. Wear suitable protective clothing and gloves if handling an open or leaking battery.</p> <p>Hand protection: Wear suitable gloves if handling an open or leaking battery.</p> <p>Eye Protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.</p>
Other Protective Equipment	<p>Have a safety shower and eye wash fountain readily available in the immediate work area.</p>
Hygiene Measures	<p>Do not eat, drink, or smoke in the work area. Maintain good housekeeping.</p>

Section 9- Physical and Chemical Properties

Form	Solid
Colour	Black
Odour	Not available
pH	Not available
Melting point/freezing point	Not available
Boiling point and Boiling range	Not available
Flash Point	Not available
Upper/lower flammability or explosive limits	Not available
Vapour Pressure	Not available

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Vapour Density	Not available
Relative Density	Not available
Solubility in Water	Not available
Self-ignition Temperature	Not available
Decomposition Temperature	Not available
Evaporation Rate	Not available
Flammability (soil, gas)	Not available
Viscosity	Not available
Section 10- Stability and reactivity	
Stability	The product is stable under conditions described in Section 7
Conditions to avoid	Heat above 70°C or incineration. Deformation, mutilation, crushing, dismantling, overcharging, short-circuit, prolonged exposure to damp conditions.
Incompatible materials	Oxidizing agents, acid, base.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, lithium oxide fumes.
Possibility of Hazardous Reaction	Not available
Section 11 – Toxicological Information	
Irritation	Risk of irritation occurs only if the cell is mechanically, thermally or electrically misused 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
Toxicologically Synergistic Materials	Not available
Section 12- Ecological Information	
Ecological Toxicity	Not available
Mobility in soil	Not available
Persistence and Degradability	Not available
Bioaccumulation potential	Not available

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Other Adverse Effects	Not available
Section 13- Disposal Considerations	
Product disposal recommendation	Observe local, state and federal laws and regulations.
Uncleaned packaging recommendation	Disposal must be made according to official regulations
Section 14 – Transport Information	
Label for conveyance	Lithium Battery Label
UN Number	UN 3480 or UN3481
Transport hazard class(es)	9
Packing group	--
Marine pollutant	No
UN Proper shipping name	Lithium ion Batteries (Including lithium ion polymer batteries) Lithium ion Batteries packed with equipment (Including lithium ion polymer batteries) Lithium ion Batteries contained in equipment (Including lithium ion polymer batteries)
<p>Transport information: Li-ion battery (Sample Model: WPA415) is tested and has been found compliant the with UN manual of Tests and Criteria, Part III, subsection 38.3. The goods are compliant with the requirements of Section IB-II of Packing Instruction 965 or of Section II of Packing Instruction 966 967 of the 59th DGR Manual of IATA or special provision 188 of IMDG CODE (Amdt. 38-16).</p> <p>Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging to provide support during transport and ensure protection from falling, dropping and breakage. Avoid the collapse of cargo piles and wetting by rain.</p> <p>Transport Method: By air, sea, railway or road.</p>	

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Section 15- Regulatory Information

Legal 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 Coding 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)
《Oil Pollution Act》 (OPA)
《Superfund Amendments and Re-authorization Act Title III (302/311/312/313)》 (SARA)
《Resource Conservation and Recovery Act》 (RCRA)
《Safety of Drinking Water Act》 (CWA)
《California Proposition 65》
《Code of Federal Regulations》 (CFR)

EC-1907/2006 (REACH), EC-1272/2008 and following Regulation ED-453/2010

Global Harmonised System of Classification and Labelling of Chemical (GHS)

In compliance with all Federal, State and Local laws.

Section 16- Other Information

The above information 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, explicit 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 whether additional precautions are required.