

MSDS Report

Material Safety Data Sheet

Applicant's name	Yor International Srl
Applicant's Address	Viale del Lavoro, 22/G 37036 San Martino Buon Albergo VR Italy
Name of Sample	Lithium Ion Battery
Model	NRG23006
Nominal Voltage	25,2V
Rated Capacity	15Ah 378Wh
Weight	2.0 kg
Size (L×W×T)	325*129*97 mm
Prepared By	Advanced Batteries srl Via Nenni 19 Paderno Dugnano (MI) – ITALY
Report No.	003/2025

Written by: <u>BRAGGION</u> Approved by: <u>DEFEO</u>

Inspected by: SPATARO Date: 05/01/2025

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Section 1- Chemical Product & Company Identification		
Name of Sample	Lithium Ion Battery	
Manufacturer's name	Advanced Batteries srl.	
Manufacturer's Address	Via Nenni 19 20037 Paderno Dugnano (MI) Italy	
Contact Person	Spataro Alessio	
Tel	+39 02 50043400	
Fax		
Emergency Tel	+39 02 50043400	
E-mail	spataro@specialith.com	

Section 2- Hazards Identification		
Classification of Danger	See section 14.	
Primary Route(s) of Exposure	Eye, skin contact, ingestion.	
Health Hazard	The batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, there's Hazard of rupture, fire, heat, leakage of internal components, which could cause casualty loss. Abuses including but not limited to the following cases: charged for long time, short circuited, put into fire, whacked with hard object, punctured with acute object, crushed, and broken.	

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Section 3- Composition/Information on Ingredients		
Chemical Name	Concentration or concentration ranges (%)	CAS Number
Lithium Cobalt Oxide (CoLiO ₂)	15-40	12190-79-3
Graphite	10-30	7782-42-5
Phosphate(1-), hexafluoro-, lithium	10-30	21324-40-3
Copper	7-13	7440-50-8
Aluminum foil	1-5	7429-90-5
Nickel	1-5	7440-02-0

Labeling according to EC directives.

No symbol and Hazard phrase are required.

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

Section 4- First Aid Measures		
Eye	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.	
Skin	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get 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 physician.	

Section 5- Fire Fighting Measures		
Characteristics of Hazard	Dusts at sufficient concentrations can form explosive mixtures with air. Combustion generates toxic fumes.	
Hazardous Combustion Products	Carbon dioxide.	
Fire-extinguishing Methods and Extinguishing Media	For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.	

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Attention in Fire-extinguishing

Wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6- Accidental Release Measures		
Personal Precautions, protective equipment, and emergency procedures	In case of rupture. Attention! Corrosive material. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safeareas. Keep people away from and upwind of spill/leak. Refer to protective measures listed in Sections 7 and 8.	
Environmental Precautions	Prevent product from contaminating soil and fromentering sewers or waterways.	
Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled liquidwith 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 anacceptable waste container. Collect all contaminated absorbent and dispose of 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	The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.	
Storage	Store in a cool, dry, well-ventilated area away from incompatible substances. Store locked up. Keep out of the reach of children.	
Other Precautions	In case of rupture. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment.	

Section 8 - Exposure Controls/Personal Protection		
Engineering Controls	Use adequate ventilation to keep airborne concentrations low. If used under conditions that generate particulates, the ACGIH TLV-TWA of 3mg/m³ respirable fraction (10mg/m³ total) should be observed.	

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Personal	Protective	Equipment	+
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Eye and Face Protection: None required for consumer use. If there is a Hazard of contact: Tight sealing safety goggles. Face protection shield.

Skin and Body Protection: None required for consumer use. If there is a Hazard of contact: Wear protective gloves and protective clothing.

Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Section 9- Physical and Chemical Properties		
	Appearance:	
Physical State	Color: Blu	
	Odour: If leaking, smells of medical ether.	
Change in condition		
рН	Not applicable as supplied.	
Flash Point	Not applicable unless individual components exposed.	
Flammability	Not applicable unless individual components exposed.	
Relative density:	Not applicable unless individual components exposed.	
Solubility (water)	Not applicable unless individual components exposed.	
Solubility (other)	Not applicable unless individual components exposed.	

Section 10 – Stability and Reactivity		
Chemical Stability	Stable under recommended storage conditions.	
Possibility of Hazardous Reactions	None under normal processing.	
Conditions to Avoid	Exposure to air or moisture over prolonged periods.	
Incompatible materials	Acids, Oxidizing agents, Bases.	
Hazardous Decomposition Products	Carbon oxides.	

Section 11 – Toxicological Information

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Irritation	In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.
Sensitization	Not Available.
Reproductive Toxicity	Not Available.
Toxicologically Synergistic Materials	Not Available.

Section 12-Ecological Information	
General note:	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 impact/ ecotoxicity	Not Available.

Section 13 – Disposal Considerations	
Waste Treatment	Recycle or dispose of in accordance with government, state & local regulations.
Attention for Waste Treatment	Deserted batteries shouldn't be treated as ordinary trash. Shouldn't be thrown into fire or placed in high temperature. Shouldn't be dissected, pierced, crushed or treated similarly. Best disposal method is recycling.

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

ICAO / IATA:

Can be shipped by air in accordance with International Civil AviationOrganization (ICAO), TI or International Air Transport Association (IATA), DGR Packing Instructions (PI) 965 Section IA appropriate of IATA DGR 63st (2022 Edition) for transportation.

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IMDG CODE:	Shipping may be done in accordance with the IMDG Code 2020 Edition (Amdt 40-20)
DOT:	Other requirements for the US Department of Transportation (DOT) Subchapter C, Hazardous Materials Regulations if shipped in compliance with 49 CFR 173.185.
ADR/ ADN:	Transport Requirements for United Nations Economic Commission for Europe (UNECE) ADR/AND, Applicable as from 1 January 2021.

In addition, to be permitted in transport each lithium cell and battery types must have passed the applicable tests set out in Subsection 38.3 of the UN Manual of Tests and Criteria.

Section 15 – Regulatory Information

Dangerous Goods Regulations

Recommendations on the Transport of Dangerous Goods-Model Regulations (20th revised edition)

Recommendations on the Transport of Dangerous Goods-Manual of Tests and Criteria

International Air Transport Association (IATA)

International Maritime Dangerous Goods (IMDG Code 2018 Edition Amdt 39-18)

Technical Instructions for the Safe Transport of Dangerous Goods

Classification and code of dangerous goods (GB 6944-2012)

2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Toxic Substance Control Act (TSCA)

Code of Federal Regulations

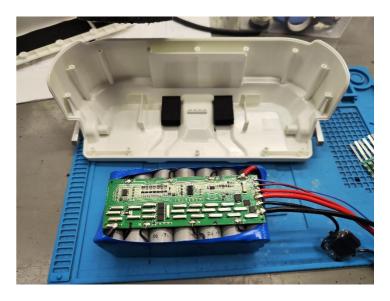
In accordance with all Federal, State and local laws

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Section 16 – Additional Information

MSDS creation date: 2025 Version: 1.0

Sample photo:



To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

******End of report*****