



Safety Data Sheet

SolarEdge Nexis Battery Block

Commissioner name: SolarEdge

Version 1.1

January 2026

Product Information

Name of Product	SolarEdge Nexus Battery Block
Model	NX-BLCK-5K / NX-BLCK-5K-SR / NX-BLCK-5K-NB
Commissioned by	SolarEdge Technologies
Commissioner address	1 Hamada Str, Herzliyah, 4673335, Israel
Supplier	SolarEdge Technologies
Supplier address	1 Hamada Str, Herzliyah, 4673335, Israel
Inspection according to	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS, Rev.10)
Emergency telephone number	Global: +972-3-763-0639 US: 1-800-424-9300 Other numbers: see Appendix A
Remarks	Safety Data Sheets are a sub-requirement of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR Subpart 1910.1200. This Hazard Communication Standard does not apply to various subcategories including anything defined by OSHA as an "article". According to OSHA, Article means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees. Because all our batteries are defined as "articles", they are exempt from the requirements of the Hazard Communication Standard. These batteries are not "substances" or "mixtures" according to Regulation (EC) No 1907/2006 EC. Instead, they must be regarded as "articles", no substances are intended to be released during handling. Therefore, there is no obligation to supply a safety data sheet according to Regulation (EC) 1907/2006, Article 31. This information is provided as a service to our customers. The details presented are in accordance with our present knowledge and experiences. They are not contractual assurances of product attributes.

Product and company identification

Product Identifier:

Product name: Lithium Ion Battery Model: NX-BLCK-5K, UNX-BLCK-5K

Other means of identification:

Synonyms: None

Relevant identified use of Product and uses advised against:

Recommended Use: Energy storage

Uses advised against: Don't disassemble, Short-circuit, Dispose in fire, Expose to high temperature

Details of the Supplier of the safety data sheet:

Name: SolarEdge Technologies.

Address: 1 Hamada St, Herzliyah, 4673335 Israel

Telephone: +972-3-763-0639

E-mail address: <support@solaredge.com>

Emergency telephone number:

Company emergency phone number: +972-3-763-0639

Hazard identification

Classification:

The watt-hour rate of the product is 4900Wh. It belongs to class 9 dangerous goods. The product is tested according to Section 38.3 of the Manual of Tests and Criteria.

Other information

Caution! Avoid the following: creating a short circuit; placing it in a high temperature environment; putting it into water; damaging the casing.

Composition/information on ingredients

The product may contain one of the following cell's ingredients:

Cell#1

Chemical characterization: Mixtures

Description: Chemical power supply based on a non-aqueous electrolyte. Composed of a positive electrode, a negative electrode, a diaphragm, an electrolyte and a housing.

Hazardous ingredients:

Common Chemical Name	Chemical Formula	Concentration (%)	CAS No.	EC No.
Lithium iron phosphate	LiFePO ₄	37	15365-14-7	921-062-3
PVDF	C ₂ H ₂ F ₂	0.8	24937-79-9	607-458-6
Aluminum foil	Al	3	7429-90-5	231-072-3
Copper foil	Cu	6.5	7440-50-8	231-159-6
Carbon Black	C	0.2	1333-86-4	215-609-9
DEC	C ₅ H ₁₀ O ₃	<10	105-58-8	203-311-1
Lithium hexafluorophosphate	LiPF ₆	<13.5	21324-40-3	244-334-7
EMC	C ₄ H ₈ O ₃	<5	623-53-0	208-760-7
EC	C ₃ H ₄ O ₃	<5	96-49-1	202-510-0
Graphite	C	19	7782-42-5	231-955-3

Note: N/A=Not apply.

Cell#2

Chemical characterization: Mixtures

Description: Chemical power supply based on a non-aqueous electrolyte. Composed of a positive electrode, a negative electrode, a diaphragm, an electrolyte and a housing.

Hazardous ingredients:

Common Chemical Name	Chemical Formula	Concentration (%)	CAS No.	EC No.
Lithium iron phosphate	LiFePO ₄	49	15365-14-7	476-700-9
Polypropylene	C ₃ H ₆	5	9002-88-4	200-815-3
Aluminum foil	Al	6	7429-90-5	231-072-3
Copper foil	Cu	13	7440-50-8	231-159-6
Lithium hexafluorophosphate	LiPF ₆	3	21324-40-3	244-334-7

Common Chemical Name	Chemical Formula	Concentration (%)	CAS No.	EC No.
Graphite	C	24	7782-42-5	231-955-3

Note: N/A=Not apply.

First-aid measures

First aid measures:

Eye Contact: Rinse thoroughly with plenty of water, including under the eyelids. If symptoms persist, call a physician.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with soap and water. In the case of skin irritation or allergic reactions, see a physician.

Inhalation: Move to fresh air. If symptoms persist, call a physician.

Ingestion: Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Swallowing: Do not induce vomiting. Get medical attention.

Most Important Symptoms/Effects:

No information available.

Indication of any immediate medical attention and special treatment needed:

Inform physician. Treat symptomatically.

Fire-fighting measures

Suitable Extinguishing Media:

CO₂, dry chemical powder, wet sand, plenty of water (for cooling). Unsuitable Extinguishing Media: No information available.

Protective Equipment and Precautions for Firefighters:

As in any fire, wear self-contained, pressure-demand breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear. For example: Wear self-contained respiratory protective device. Wear suitable protective clothing and eye/face protection.

Special hazards arising from the substance or mixture:

Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium batteries contain flammable ingredients that may vent, ignite and produce sparks when subjected to high temperature (>150°C). When damaged or abused (e.g.

mechanical damage or electrical overcharging), may burn rapidly with flare-burning effect. May ignite other batteries in close proximity.

Accidental release measures

Personal precautions, protective equipment, and emergency procedures:

Personal Precautions:

- Avoid contact with eyes.
- Refer to section 8 for personal protective equipment.
- Ensure adequate ventilation.
- Remove all sources of ignition.
- Evacuate personnel to safe areas.

Environmental precautions:

Refer to the protective measures listed in "Fire-fighting measures" and "Handling and storage".

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to "First Aid measures" section above.

Methods and materials for containment and cleaning up:

Methods for Containment: prevent further leakage or spillage if safe to do so.

Methods for Cleaning up: use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other Non-combustible absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

Handling and storage

Precautions for safe handling:

Keep away from ignition sources like heat and flame. These batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. Avoid mechanical or electrical abuse.

More than a momentary short circuit will generally reduce the battery service life. Avoid reversing battery polarity within the battery assembly. In case of a battery unintentionally being crushed, use rubber gloves to handle all battery components. Avoid contact with eyes and skin. Avoid inhalation. No smoking at working site. Materials to Avoid: Strong oxidizing agents; corrosives.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area. Keep away from ignition sources, heat, and flames. Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short-circuits. Materials to Avoid: Strong oxidizing agents; corrosives.

Exposure controls/personal protection**Engineering Controls:**

Use ventilation equipment if available. Safety shower and eye bath.

Personal Protective Equipment:

Respiratory System: not necessary under conditions of normal use.

Eyes: not necessary under conditions of normal use.

Clothing: wear appropriate protective clothing.

Hands: safety gloves.

Other Protections:

No smoking, drinking or eating at the working site. Wash hands thoroughly after handling.

Physical and chemical properties

Physical State	Form: prismatic
	Color: Black / Blue
	Odour: Odourless
	Odor Threshold: No information available
Change in condition:	
pH, with indication of the concentration	Not determined.
Melting point/ freezing point	Not determined.
Initial boiling point and Boiling range:	Not determined.
Flash Point	Not determined.

Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Auto-ignition temperature	Product is not self-igniting.
Decomposition temperature	Not determined.
Other Information	No further relevant information available.

Stability and reactivity

Reactivity: Stable under recommended storage and handling conditions (see section 7).

Chemical stability: Stable under normal conditions of use, storage and transport.

Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

Possibility of Hazardous Reactions: None under normal processing.

Hazardous Polymerization: Hazardous polymerization does not occur.

Conditions to avoid: High heating, fire, Incompatible materials.

Incompatible materials: Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products: Carbon oxides, other irritating and toxic gases.

Toxicological information

Acute toxicity: No data available.

Skin corrosion/irritation: No irritant effect.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: No sensitizing effects known.

Specific target organ system toxicity: No information available. *Note: The internal battery materials may cause irritation to eyes and skin.*

Ecological information

Toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Results of PBT and vPvB assessment:

PBT: Not applicable. vPvB: Not applicable.

Other adverse effects: No information available.

Disposal considerations

Waste treatment methods:

Recommendation: Lithium batteries are best disposed of as a non-hazardous waste when fully or mostly discharged. Contact a licensed professional waste disposal service to dispose of large quantities of materials.

Other disposal recommendations:

Recommendation: Disposal must be made according to official regulations.

Transport information

The product had been tested according to the requirements of the UN Manual of Tests and Criteria, Part III, subsection 38.3 (see section 2)

EmS No: F-A ,S-I

Marine pollutant: No

Environmental hazards: Not applicable.

Special precautions for user: Not applicable.

Proper Shipping name: Lithium ion batteries

Hazard Class: Class 9

UN/ID Number: UN3480

Packagiong Group: II

Air transport: No

Label for conveyance:

Class 9 lithium battery hazard label, Cargo Aircraft Only Label

The goods comply with the requirements of Section IA of Packing Instruction 965 of 65th DGR Manual of IATA (2024 Edition).

Maritime transport:

Label for conveyance: Class 9 lithium battery hazard label

The goods comply with the requirements of Packing Instruction P903 of IMDG CODE (Amdt. 41-22) 2022 Edition

Land transport:

Label for conveyance: Class 9 lithium battery hazard label

The goods comply with the requirements of Packing Instruction P903 in the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR 2023)

Regulatory information

International Regulation:

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS)

Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations IATA Dangerous Goods Regulations (DGR)

INTERNATIONAL MARITIME DANGEROUS GOODS CODE IMDG CODE)

EU Regulation:

Regulation (EU) 2020/878: Revised Requirements for EU Safety Data Sheets

EU regulation (EC) 1272/2008 on "Classification, Labeling and Packaging of Substances and Mixtures" (CLP)

Registration , Evaluation and Authorization of Chemicals (REACH)

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

US Regulation:

American National Standard for Hazardous Workplace Chemicals – Hazard Evaluation and Safety Data Sheet and Precautionary Labeling Preparation

US DOT, Code of Federal Regulations, Title 49, Transportation, PT. 100-185

Other information

This file is only effective to the batteries (NX-BLCK) provided by the commissioner of SolarEdge Ltd. The commissioner provides the composition information of batteries, and promises its integrity and accuracy. Users should read this file carefully and use the batteries in the correct manner.

Appendix A: Regional Emergency Phone Numbers

Country	Local Number	Toll-Free Number
Australia	+61 2 9037 2994	1800 862 115
Austria	+43 1 3649237	0800 293702
Belgium	+32 2 808 32 37	
Canada	+1 703-741-5970	1-800-424-9300
Czech Republic	+420 228 880 039	
Denmark	+45 69 91 85 73	
Finland	+358 9 42419014	
France	+33 9 75 18 14 07	
Germany	+49 69 643508409	0800 1817059
Greece	+30 21 1176 8478	
Hungary	+36 1 808 8425	
Iceland	+354 539 0655	
Ireland	+353 1 901 4670	
Israel	+972 3-763-0639	
Italy	+39 02 4555 7031	800 789 767
Latvia	+371 66 165 504	
Lithuania	+370 5 214 0238	
Luxembourg	+352 20 20 24 16	
Macedonia	+389 2 551 7456	
Mexico	800 681 9531	
Netherlands	+31 85 888 0596	
New Zealand	+64 9-801 0034	0800 425 459
Panama	+507 832-2475	
Poland	+48 22 398 80 29	
Portugal	+351 308 801 773	
Romania	+40 376 300 026	
Russia	8 (800) 100-63-46	

Singapore	+65 3158 1349	800 101 2201
Slovakia	+421 2/330 579 72	
Slovenia	+386 1 888 80 16	
South Africa	080 098 3611	
South Korea	080 822 1374	
Spain	900 868 538	
Sweden	+46 8 525 034 03	
Taiwan	+886 2 7741 4207	00801-14-8954
Ukraine	+380 94 710 1374	