

## Section 1 Identification.

Product name:

**NOCO® Boost X 4250A Jump Starter**

Product code:

**GBX155**

Other means of identification: Not available.

Recommended use: Rechargeable battery jumpstarter

Nominal voltage: 14.8V

Rated capacity: 3150mAh

Watt hour (electric energy): 99Wh

Lithium Content: 8.10g/battery - 1 Battery

Manufacturer: The NOCO Company  
30339 Diamond Parkway  
Glenwillow, OH 44139 USA

Email support@no.co

Emergency telephone: (800) 633-8253 (US/CA)  
PERS (801) 317-0899 (International)Information telephone: (800) 456-6626  
Mon-Fri 8:00am to 5:00pm MST

## Section 2 Hazards Information.

Classification: HMIS Ratings: Health: 0 Fire: 0 HMIS Reactivity: 0

This product is an "article" which is a sealed battery and as such is exempted from the requirements of the Hazard Communication Standard and does not require an SDS unless ruptured. The product is not considered dangerous as manufactured and is not hazardous in normal use. Do not disassemble, crush, heat above 60°C (140°F) or incinerate. READ OWNER'S MANUAL BEFORE USE.

The chemicals are contained in a sealed enclosure. Risk of exposure only occurs if the product is mistreated, abused, subjected to extreme pressure deformation, high-temperature environment, overload, external short circuit, or disassembled; compromising the enclosure. In this case, risk of exposure to the electrolytes can occur. Contact with the internal components may cause irritation or severe burns. It is irritating to the eyes, respiratory system and skin. The electrode materials are only hazardous if the material is released by mechanical damaging of the cell, or if it is exposed to fire.

## Section 3 Composition/Information on ingredients.

Chemical Name	Molecular Formula	CAS Number	Concentration %
Lithium Nickelate	LiNiO <sub>2</sub>	12031-65-1	10.25
Lithium Cobalt Oxide	LiCoO <sub>2</sub>	12190-79-3	11.10
Lithium Maganese Oxide	LiMn <sub>2</sub> O <sub>4</sub>	12057-17-9	7.65
Polyvinylidene Fluoride (PVDF)	(C <sub>2</sub> H <sub>2</sub> F <sub>2</sub> ) <sub>n</sub>	24937-79-9	1.33
Aluminium	Al	7429-90-5	12.38
Graphite	CH <sub>4</sub>	7782-42-5	13.70
Styrene-Butadiene Rubber (SBR)	C <sub>12</sub> H <sub>14</sub>	9003-55-8	0.80
Carboxymethylcellulose	C <sub>8</sub> H <sub>16</sub> O <sub>8</sub>	9000-11-7	0.72
Copper	Cu	7440-50-8	18.49
Nickel	Ni	7440-02-0	4.75
Lithium Hexafluorophosphate	LiPF <sub>6</sub>	21324-40-3	16.42
Polyethylene	(C <sub>2</sub> H <sub>4</sub> ) <sub>n</sub>	9002-88-4	1.90
Nylon	C <sub>2</sub> ClF <sub>3</sub>	24937-16-4	0.51

## Section 4 First aid measures.

- General advice:** First aid is only applicable in case of a cell rupture. Cell rupture can only occur if product is misused, mechanically, thermally, or electrically abused to the point of compromising the enclosure. Contact with internal components may cause allergic skin sensitization (rash) and irritate eyes, nose, throat, and respiratory system. Cobalt and Cobalt compounds are considered possible human carcinogens.
- Ingestion:** Ingestion of battery contents if battery is compromised due to incorrect use or damaged may cause mouth, throat, and intestinal burns. Seek immediate medical attention. Do not induce vomiting unless directed to do so by medical personnel.
- Inhalation:** Inhalation of vapors or fumes released due to heat, damage, or incorrect use, may cause respiratory irritation. If irritation of nose or throat develops, move away from source of exposure and into fresh air. Seek immediate medical attention.
- Eye Contact:** For direct contact of chemicals in the battery, flush the affected eye(s) with gentle stream of clean water for at least 15 minutes, if irritation persists; seek medical attention.
- Skin Exposure:** Contact with the internal battery materials can cause burns and skin irritation. If contact should occur, immediately flush with plenty of water. Cleanse affected area(s) thoroughly by washing with mild soap and water and, if necessary, a waterless skin cleaner. If irritation or redness develops and persists, seek medical attention.

## Section 5 Firefighting measures.

Exposure to excessive heat can cause venting of the liquid electrolyte.

Extinguishing media: Use foam, dry powder, or dry sand, CO<sub>2</sub> as appropriate. CAUTION: Use of water spray when fighting battery fire may be inefficient.

Specific hazards: Under fire conditions, batteries may burst and release hazardous decomposition products. This could result in the release of flammable or corrosive materials.

Hazardous combustion product: CO, CO<sub>2</sub>, Metal oxides, irritating fumes.

Protective equipment and precautions for firefighters: Firefighters must wear fire resistant protective equipment and appropriate breathing apparatus. Fire and toxic gas resistant clothing is recommended. Remove the container to open space as soon as possible. Be upwind of the fire before extinguishing.

## Section 6 Accidental release measures.

Personal precautions, protective equipment, and emergency procedures: If battery material 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, dispose of the case after the batteries have cooled, and vapors have dissipated. Avoid contact with skin and eyes and avoid inhalations of vapors.

Methods for containment: Prevent further leakage or spillage if it is safe to do so.

Waste disposal method: Collect all released material in a plastic lined container. Dispose of according to local law and rules (see Section 13). Dispose of in a timely manner as leached substances can be absorbed into the earth, and subsequently the water.

## Section 7 Handling and storage.

Precautions to be taken in handling and storing: Always follow the warning information on the product user manual and in the manuals of devices product will be used on. Only use on the recommended battery types. Keep product away from children. Product should be protected against unauthorized use and access. Do not handle with metalwork. Do not disassemble, crush, or burn product. Ensure good ventilation when using.

Storage: Store product in a dry, cool, and well-ventilated area. Keep out of reach of children. It is recommended to recharge the battery periodically, if product is subject to storage for a long period of time (more than 3 months). Do not store or use product near fire or heaters, avoid storage in direct sunlight. Do not store together with oxidizing and acidic materials. Do not immerse in water.

## Section 8 Exposure controls/personal protection.

Ventilation: Use where there is adequate ventilation. Keep away from heat and flames.

Respiratory protection: Not necessary under normal use. In case of battery rupture, use self-contained full-face respiratory equipment.

Protective gloves: Not necessary under normal use. Use rubber gloves if handling a leaking or ruptured battery.

Eye protection: Not necessary under normal use. Wear safety goggles or glasses with side shields if handling a leaking or ruptured battery.

Skin protection: Not necessary under normal use. Use rubber apron if handling a leaking or ruptured battery.

Other protective equipment: Not necessary under normal use.

Hygiene measures: Do not eat, drink, or smoke when using this product.

## Section 9 Physical and chemical properties.

Physical state: Solid

Form: Prismatic

Odor: Odorless

Solubility: Insoluble in water.

Self-Igniting: Product is not self-igniting

## Section 10 Stability and reactivity.

Stability: Stable under recommended storing conditions.

Incompatibility: Avoid contact with strong acids, corrosives and oxidizing agents.

Possibility of hazardous reactions: When heated above 100°C, the risk of rupture occurs. Due to special safety construction, rupture implies controlled release of pressure without ignition.

Hazardous Decomposition Products: Under fire conditions, the electrode materials can form carcinogenic cobalt oxides.

## Section 11 Toxicological information.

As the battery materials in this product are sealed, the potential for exposure to the components of the battery is negligible. However technical or electrical abuse of the product, including dismantling, crushing, exposing to heat or fire, improper storage, or other abuse to the point of compromising the enclosure, irritation to the skin, eyes, and respiratory tract may occur.

Acute toxicity: No information is available.

Sub-acute and Chronic Toxicity: No information is available.

Irritation Data: The internal battery materials may cause irritation to eyes and skin.

Sensitization: The liquid in the battery may cause sensitization to some person.

Mutagenicity: No information is available.

Carcinogenicity: Cobalt and Cobalt compounds are considered to be possible human carcinogen(s).

## Section 12 Ecological information.

Water hazard class 1 (self-assessment): Slightly hazardous for water.

Persistence and degradability: No information available.

Bioaccumulation: No information available.

Other adverse affects: No information available.

## Section 13 Disposal considerations.

Disposal methods: This product should be completely discharged prior to disposal. The battery contains recyclable materials. It is strongly suggested to recycle. Refer to National or Local regulations before handling. Disposal of the product should be performed by permitted, professional disposal firms knowledgeable in National or Local regulations of hazardous waste treatment and hazardous waste transportation.

This product has been classified as a State hazardous waste.  
States codes applied: CA 141, WA WT01.

## Section 14 Transport information.

When transported in original packaging, this product complies with all applicable shipping regulations as prescribed by industry and legal standards which include UN Recommendations on the Transport of Dangerous Goods; IATA DGR 60th Edition (Effective 2019) Packing Instruction 965 of section IB and US DOT requirements.

The product in this Safety Data Sheet is less than 100Wh. Cells and batteries have been proven to meet the requirements of each applicable test in the UN Manual of Tests and Criteria, Part III, sub-section 38.3. Original packaging has passed the 1.2m drop test.

## Section 14 Transport information continued.

Air shipment is discouraged unless person preparing or offering product for air shipment is adequately instructed and trained. Training should cover the Department of Transportation's Hazardous Materials Regulations (49CFR, Parts 171-180), ICAO'S Technical Instructions, IATA's Dangerous Goods Regulations and the International Maritime Organization's IMDG Code.

UN number: UN3480

Proper Shipping Name: Lithium-ion battery

Air Shipments (IATA): PI 965 Section IB  
Hazard Class 9

Sea Shipments (IMO-IMDG): Special Provision 188  
Hazard Class Not Restricted  
Packing Group Not Restricted  
The goods are not restricted to IMO IMDG Code (Amend 38-2016).

Europe Road (ADR): Compliant with Special Provision 188 of the ADR/IMDG Regulations and can be transported as "Excepted"

US Road (DOT): Compliant with Special Provision 188 of the DOT/IMDG Regulations and can be transported as "Excepted"

## Section 15 Regulatory information.

CAS Number	USA TSCA	EU EINECS	Canada DSL/NDSL	AU AICS
12031-65-1	Listed	Not Listed	Not Listed	Not Listed
12190-79-3	Listed	Listed	DSL Listed	Listed
12057-17-9	Listed	Not Listed	Not Listed	Not Listed
24937-79-9	Listed	Not Listed	DSL Listed	Listed
7429-90-5	Listed	Listed	DSL Listed	Listed
7782-42-5	Listed	Listed	DSL Listed	Listed
9003-55-8	Listed	Listed	DSL Listed	Listed
9000-11-7	Listed	Listed	DSL Listed	Listed
7440-50-8	Listed	Listed	DSL Listed	Listed
7440-02-0	Listed	Listed	DSL Listed	Listed
21324-40-3	Listed	Listed	NDSL Listed	Listed
9002-88-4	Listed	Not Listed	DSL Listed	Listed
24937-16-4	Not Listed	Listed	Not Listed	Listed

## Section 16 Other information.

The information herein presented in good faith and believed to be accurate, based on the present state of knowledge and current legislation, as of the date of document preparation. This safety data sheet provides guidance on health, safety, environmental, and transportation aspects of the product for users who have professional training.

As this information may be applied under conditions beyond our control and with which we may be unfamiliar; **no warranty, expressed or implied, is given;** and this document should not be construed as any guarantee of technical performance or suitability for particular applications. It is the buyer's responsibility to ensure that its activities comply with National, Federal, State, and local laws.

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