

Section 1 Identification.

Product name:

NOCO® AL5

Product code:

AL5

Other means of identification: Not available.

Recommended use: Rechargeable lithium-ion battery

Nominal voltage: 11.1V

Rated capacity: 2000mAh

Watt hour (electric energy): 22.2Wh

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.

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	CAS Number	Concentration %
Lithium Cobaltate	12190-79-3	15-40%
Graphite	7782-42-5	10-30%
Lithium Hexafluorophosphate	21324-40-3	0-10%
Copper	7440-50-8	7-13%
Aluminium	7429-90-5	5-10%
Nickel	7440-0-2-0	1-5%

Section 4 First aid measures.

- General advice:** The Sealed intact battery is not hazardous in normal use. 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.
- 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.

Promptly isolate the scene by removing all persons from the vicinity of the incident. No action should be taken involving personal risk without suitable training. Do not re-enter scene until thoroughly ventilated.

Extinguishing media: Use foam, dry powder, or dry sand, CO₂ 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: Corrosive and toxic gases, metallic oxide, Carbon monoxide, Carbon dioxide.

Protective equipment and precautions for firefighters: Firefighters should wear fire-fighting suits with self-contained breathing apparatus.

Section 6 Accidental release measures.

No action should be taken involving personal risk without suitable training. See Section 8.

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: In the event of battery rupture, prevent further leakage or spillage if it is safe to do so. Capture all released material in a plastic lined container.

Waste disposal method: Dispose of container in accordance with local laws and regulations. Do not allow leached substances to seep into the earth or waterways.

Section 7 Handling and storage.

This product should be stored, handled, and used in accordance with all Federal, State and Local laws and regulations. Eating, drinking, and smoking should be prohibited in areas where this product is handled, stored, or processed. Wash hands, forearms, and face thoroughly after handling this product and before eating, smoking, using the lavatory, and at the end of any work period.

Precautions to be taken in handling and storing: Do not mix this product with other battery types. Do not overcharge. Use effective anti-short circuit measures. Do not connect improperly or short circuit, which may result in overheating, explosion, or leakage of cell contents. Accidental short circuit may cause temperature elevation to the battery as well as shortened battery life. Be sure to avoid a prolonged short circuit, as this can rupture the battery case and cause burns and/or a fire. Do not handle near conductive objects, such as coins, metal jewelry, belts or use a metal worktable or any other material that may cause an electrical short circuit. Do not use organic solvents or other chemical cleaners on the battery. Do not disassemble or tear down. Avoid battery contact with water and direct sunlight. Transport this product in a 10-70% state of charge.

Section 7 Handling and storage continued.

Storage: Store this product in a cool, dry, and clean area. Prevent condensation on the cell and battery terminals. High temperature storage conditions may damage the performance of this product and cause leaking or rusting. Protect this product from physical damage and short circuit risk by loose metal objects near terminals. Keep product away from sparks and other sources of ignition. Do not stack uninsulated batteries on top of each other. Do not store on an electrically conductive surface. Do not dispose of this product in a fire or furnace.

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: Facility should be equipped with an eyewash station.

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

Section 9 Physical and chemical properties.

Physical state: Solid

Form: Rectangular Black

Odor: Odorless

Solubility: Insoluble in water.

Section 10 Stability and reactivity.

Stability: Stable under recommended storage conditions.

Hazardous Reaction Conditions: Fire source, heating source, direct sunlight, disassembly, high humidity, immersing in water, external short circuit, crushes, deformation, overcharge, explosives, inflammables, strong oxidants and corrosives.

Hazardous Decomposition Products: Thermal decomposition may produce fumes of metal oxides or harmful gases.

Hazardous Polymerization: Will not occur.

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, may result in the release of battery contents.

Acute Toxicity: No information is available.

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

Irritation Data: Compromised Battery may cause irritation to eyes and skin.

Sensitization: Compromised battery may cause sensitization to some individuals.

Mutagenicity: No information is available.

Carcinogenicity: No information is available.

Section 12 Ecological information.

Discarded batteries may be harmful to the environment.

Section 13 Disposal considerations.

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 65th Edition (Effective 2024) Packing Instruction Section II of 967 appropriately.

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.

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: UN3481

Proper Shipping Name: Lithium-ion battery contained in equipment

Air Shipments (IATA DGR 62nd Edition Effective 2021) Training is Required for Air Shipping of Lithium Ion Batteries.

Hazard Class: Hazard Class 9

Packaging requirement: Packing Instruction 965 of section IB

Sea Transportation, according to IMO IMDG Code (Amend 39-2018)

Packaging requirement: Not Restricted

Special Provision: SP188

EmS Number: F-A, S-I

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"

Canada (TGD): Compliant with Special Provision 34 of the TDG Regulations and can be transported as "Excepted"

Section 15 Regulatory information.

CAS NO	EC NO.	USA TSCA	EU EINECS	CANADA DSL/NDSL	AU AICS
12190-79-3	235-362-0	Listed	Listed	DSL Listed	Listed
7782-42-5	231-955-3	Listed	Listed	DSL Listed	Listed
7429-90-5	231-072-3	Listed	Listed	DSL Listed	Listed
7440-50-8	231-159-6	Listed	Listed	DSL Listed	Listed
21324-40-3	244-334-7	Listed	Listed	DSL Listed	Listed
7440-02-0	231-111-4	Listed	Listed	DSL Listed	Listed

California Proposition 65: **WARNING:** Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

Section 16 Other information.

Prepared on: December 27, 2024

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.