Issue Date: Mar.30th, 2026

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Lithium-manganese Dioxide Cell
Product Identification: CR123A
Designations: TRADEFORCE 0003560011
Nominal Voltage: 3.0V
Product Use: Energy Source
Company Identification: SONEPAR GLOBAL SOURCING EUROPE SA
Chemin Louis-Hubert 3, 1213 Petit-Lancy, Switzerland
www.buytradeforce.com
Phone Number : +86-13169849023

2. HAZARDS IDENTIFICATION

Hazards Identification：	Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained within or their ingredients products could be harmful.
Primary Route(s) of Exposure	inhalation, ingestion, Skin contact and Eye contact.
Potential Health Effects:	inhalation：Vapors or mists from a ruptured battery may cause respiratory irritation Ingestion：The battery ingredients contained within or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. Skin：Skin contact with contents of an open battery can cause severe irritation or burns to the skin. Eye：Eye contact with contents of an open battery can cause severe irritation or burns to the eye.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number/CAS	Concentration or concentration ranges (%)
Manganese dioxide	1313-13-9	**46.0**
Iron	7439-89-6	**25.1**
Propylene carbonate	108-32-7	**7.0**
Poly(tetrafluoroethylene)	9002-84-0	**5.0**
1,2-Dimethoxyethane	110-71-4	**5.0**
Lithium	7439-93-2	**2.9**
Polypropylene	9003-07-0	**3.0**
Graphite	7782-42-5	**2.0**
Aluminium	7429-90-5	2.0
Lithium perchlorate	7791-03-9	1.0
Nickel	7740-02-0	1.0
Note: CAS number is Chemical Abstract Service Registry Number. N/A=Not applicable.		

4. FIRST AID MEASURES

Inhalation	Remove source of contamination or move victim to fresh air. Obtain medical advice.
Ingestion	Please rinse mouth thoroughly with water. Induce vomiting under the guidance of professional personage. Please seek medical treatment in time.
Skin contact	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.
Eye contact	Irrigate with flowing water for 15 minutes. If irritation persists, please seek medical treatment in time

5. FIREFIGHTING MEASURES

Characteristics of Hazard	Toxic fumes, gases or vapors may evolve on burning.
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, and so on
Fire-extinguishing Methods and Extinguishing Media	Please use water, dry sand and other proper fire extinguishing media
Attention in Fire-extinguishing	Firefighting personnel shall wear gas masks and full-body firefighting suits.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment, and emergency procedures	Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8
Environmental Precautions	Prevent product from contaminating soil and from entering sewers or waterways
Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled liquid with 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 an acceptable 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.

7. HANDLING AND STORAGE

Handling	Do not disassemble, squeeze, or put the battery into a high temperature environment. Do not short circuit or install with incorrect polarity
Storage	Long period storage: 25±5°C, 60±25%R.H Do not storage the battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects Keep out of reach of children. Do not expose the battery to heat or fire. Avoid storage in direct sunlight. Do not store together with oxidizing and acidic materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	No engineering controls are required for handling batteries that have not been damaged. Personal protective equipments for damaged batteries should include chemical resistant gloves and safety glasses.
Personal Protective Equipment:	Respiratory Protection: in case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use. Not necessary under conditions of normal use. Protective Gloves: Not necessary under conditions of normal use. Other Protective Clothing or Equipment: Not necessary under conditions of normal use Personal Protection is recommended for venting battery: Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	From: Solid
	Color: Green & Orange
	Odour: Normally, no odor.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Conditions to Avoid	Heat above 70°C or incinerate，expose over a long period to humid conditions.
Hazardous Decomposition Products	Toxic Fumes, and may form peroxides.
Possibility of Hazardous Reaction	If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Irritation	In the case of internal material exposure, the vapor fumes may cause irritation to the eyes and the leaking electrolyte may cause irritation to the skin
Sensitization	No data is available
Reproductive Toxicity	Data is available
Toxicologically Synergistic Materials	No data is available

12. ECOLOGICAL INFORMATION

General note	Do not allow undiluted products 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	No data is available
Mobility in soil	Not applicable
Persistence and Degradability	Not applicable.

13. DISPOSAL CONSIDERATIONS

Waste Treatment	Recycle or dispose of in accordance with government, state & local regulations
Attention for Waste Treatment	Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling.

14. TRANSPORT INFORMATION

The battery shall be passed the test items of the UNITED NATIONS "Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria" section 38.3 and meet the requirements of UNITED NATIONS "Recommendations on the Transport of Dangerous Goods, model Regulations "
The battery shall be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit.
The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking.
The package must be handled with care and that a flammability hazard exists if the package is damaged.。
With regard to transport, the following regulations are cited and considered:
-The international Civil Aviation Organization (ICAO) Technical Instructions.
-The international Air transport Association (IATA) Dangerous Goods Regulations.
The battery can be shipped by air in according to PACKING INSTRUCTION 968 Section IB , or PACKING INSTRUCTION 969～970 Section II of the 2026 IATA Dangerous Goods regulations 67th Edition.。
UN number: UN3090 or UN3091;
UN Proper shipping name/Description (technical name): Lithium metal batteries or Lithium metal batteries packed with equipment or Lithium metal batteries contained in equipment;
UN Classification (Transport hazard class): Class 9 (PI968 Section IB) or Not applicable (PI969～970 Section II) U
UN Packing Group: Not applicable UN
-The international Maritime Dangerous Goods (IMDG) Code.
UN number: UN3090 or UN3091;
UN Proper shipping name/Description (technical name): Lithium metal batteries or Lithium metal batteries packed with equipment or Lithium metal batteries contained in equipment;
UN Classification (Transport hazard class): Not applicable
UN Packing Group: Not applicable UN
Ems No.: F-A,S-I
The battery is not restricted according to IMO IMDG Code (inc. Amendment 42-24) Special Provision188.

15. REGULATORY INFORMATION

International Civil Aviation Organization (ICAO) Technical Instructions: ICAO
1.Unless be exempted according to ICAO TI, the lithium-ion cell/batteries (UN 3480, PI 965) and lithium metal cell/batteries (UN 3090, PI 968) are forbidden for carriage on passenger aircraft.
2.Unless be approved according to ICAO TI, Lithium-ion cells/batteries (UN 3480, PI 965) must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.
3.Unless be approved according to ICAO TI, Lithium-ion cells/batteries (UN 3481, PI 966 I) must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.
4.Unless be approved according to ICAO TI, Lithium-ion cells and batteries (UN 3481, PI 966 II) with a Watt-hour rating in excess of 2.7 Wh must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated capacity. Lithium-ion cells and batteries (UN 3481, PI 966 II) with a Watt-hour rating not exceeding 2.7 Wh must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated capacity.

5.Lithium-ion cells and batteries (UN 3481, PI 967) which are contained in equipment, those cells and batteries are offered for transport: at a state of charge not exceeding 30% of their rated capacity; or with an indicated battery capacity not exceeding 25%.

16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we makes no warranty of merchantability or any other warranty, express 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 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 if additional precautions are required.

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