

# Safety Data Sheet

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

**Product Name:** Lithium Metal Battery  
**Product Identification:** Lithium Metal Battery  
**Designations:** CR2032  
**Nominal Voltage:** 3V  
**Product Use:** Energy Source  
**Company Identification:**  
SONEPAR GLOBAL SOURCING SA  
Chemin Louis-Hubert 3, 1213 Petit-Lancy, Switzerland  
www.buytradeforce.com

## 2. HAZARDS IDENTIFICATION

**Main Hazards:**

**Health Hazards:**

The internal materials of battery are corrosive to the eyes and skin. Avoid directly inhaling and contacting the internal materials of battery.

**Environmental Hazards:**

The internal materials of battery may be harmful to the environment. Pay attention to the water system.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product Name:** CR2032

Ingredient	EC No.	CAS No.	Concentration
Manganese dioxide	215-202-6	1313-13-9	46.9 %
Graphite	231-955-3	7782-42-5	4.6%
PTFE	618-337-2	9002-84-0	0.2%
PP	618-352.4	9003-07-0	3.2%
Stainless steel	-	12597-68-1	33.1%
Lithium	231-102-5	7439-93-2	2.2%
Propylene Carbonate	203-572-1	108-32-7	4.7%
1,2-dimethoxyethane	203-794-9	110-71-4	2.9%
Lithium perchlorate	232-237-2	7791-03-9	2.0

## 4. FIRST AID MEASURES

**Skin Exposure:** If in contact with the internal materials of battery, remove the contaminated clothing, shoes, and socks, immediately flush with plenty of water for at least 20 minutes. Call a physician.

**Eye Exposure:** If in contact with the internal materials of battery, lift your eyelids immediately and rinse them with running water for more than 20 minutes. Call a physician.

**Inhalation Exposure:** If the internal materials of battery are inhaled, immediately remove to fresh air. If breathing is difficult gives oxygen. If not breathing, give artificial respiration. Call a physician.

**Oral Exposure:** Do not induce vomiting if the internal materials of battery are swallowed. Call a physician immediately.

**Most Important Symptoms/Effects, Acute and Delayed:** No data available.

**Indication of Immediate medical Attention and Special Treatment Needed, if Necessary:** No data available.

## 5. FIREFIGHTING MEASURES

**Danger characteristic:**

Exposure to excessive heat can cause venting of the liquid electrolyte.  
Battery may burst and release hazardous decomposition products when exposed to a fire situation.

**Hazardous combustion products:** Corrosive and toxic gas may be emitted during fire.

**Fire-Fighting method:**

The staff must be equipped with filter mask (full mask) or isolated breathing apparatus.  
The staff must wear clothes which can defend against the fire in the upwind direction.  
Remove the container to the open space as soon as possible.  
Spray water on the containers in the fireplace to keep them cool until finish extinguishment.

**Fire-Fighting media:** Plenty of water, dry chemical powder, or carbon dioxide.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Use personal protective equipment. Ensure adequate ventilation. Keep people away and upwind of spill/leak. Entry to noninvolved personnel should be controlled around the leakage area by roping off. Remove all sources of ignition.

**Environmental Precautions:**

Avoid leakage getting into the earth, ditches, or waters. Avoid direct Ly releasing the washing wastewater into the environment.

**Methods and Materials for Containment and Cleaning up:**

If the electrolyte leaks, use dry soil, dry sand, or other non-combustible materials to absorb and cover the leakage. Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate the area and wash spill site after material pickup is complete.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling:

Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and safety gloves. Avoid inhaling and contacting the internal materials of battery. Handling is performed in a well-ventilated place. No smoking at work site.

Incompatibilities: strong oxidizing agents, corrosives. If it is not intended to do, the battery should not be short-circuited, overcharged, over-discharged, punctured and crushed. Do not expose the battery over the maximum rated temperature specified by the manufacturer.

### Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool, dry, and well-ventilated area. Keep away from ignition sources, heat, and flame. Store in a tightly closed container.

Incompatibilities: strong oxidizing agents, corrosives. The battery must be firmly packed in inner packaging to effectively prevent short circuits and short circuits caused by movement. The storage place should be equipped with appropriate varieties and quantities of firefighting equipment and leakage emergency treatment equipment.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Appropriate Engineering Controls:** Mechanical exhaust required. Safely shower and eye bath.

### Individual Protection Measures:

**Eye/Face Protection:** Wear chemical safety glasses if needed.

**Skin Protection:** Hand Protection: Wear safety gloves. Body Protection: Wear appropriate protective clothing.

**Respiratory Protection:** Wear a government approved respirator if needed.

**Thermal Hazards:** No data available.

**Other Protect:** No smoking, drinking, or eating at the working site. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

<b>Appearance:</b>	Battery with electrolyte inside
<b>Odor:</b>	Odorless
<b>pH Value:</b>	No data available
<b>Solubility:</b>	Partial soluble In water
<b>Melting Point/°C:</b>	>300°C
<b>Flash Point (Closed Cup):</b>	No data available
<b>Density/Relative Density:</b>	5.0 (Manganese dioxide)
<b>Viscosity: Lower/Upper Explosion Limit/Flammability Limit:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Relative Vapor Density:</b>	No data available
<b>Partition Coefficient N-Octanol/Water (Log Value):</b>	No data available
<b>Autoignition Temperature:</b>	No data available
<b>Decomposition Temperature:</b>	No data available
<b>Particle Characteristics:</b>	No data available
<b>Flammability (Solid, Gas):</b>	No data available

## 10. STABILITY AND REACTIVITY

**Reactivity:** No data available.

**Chemical Stability:** Stable under normal temperatures and pressures.

**Possibility of Hazardous Reactions:** No data available.

**Conditions to Avoid:** Avoid exposure to the battery over the maximum rated temperature specified by manufacturer. Avoid charging, over-discharging, puncture, squeezing, short circuits and short circuits caused by movement.

**Incompatible Materials:** Strong oxidizing agents, corrosives.

**Hazardous Decomposition Products:** Carbon oxides, zinc, and manganese oxides, etc.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	Organic solvent: Lithium
<b>Skin Corrosion/Irritation:</b>	The electrolyte in the battery causes severe skin burns.
<b>Serious Eye Damage/Irritation:</b>	The electrolyte in the battery causes serious eye damage.
<b>Respiratory Sensitization:</b>	No data available.
<b>Skin Sensitization:</b>	No data available.
<b>Carcinogenicity:</b>	No data available.
<b>Germ Cell Mutagenicity:</b>	No data available.
<b>Reproductive Toxicity:</b>	No data available.
<b>Specific Target Organ Toxicity -Single Exposure:</b>	No data available.
<b>Specific Target Organ Toxicity -Repeated Exposure:</b>	No data available.
<b>Aspiration Hazard:</b>	No data available.

## 12. ECOLOGICAL INFORMATION

<b>Toxicity:</b>	No data available.
<b>Persistence and Degradability:</b>	No data available.
<b>Bio accumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	No data available.
<b>Other Adverse Effects:</b>	No data available.

## 13. DISPOSAL CONSIDERATIONS

**Waste chemicals:**

Before disposal should refer to relevant national and local laws and regulations. Recommend the use of incineration disposal.

**Contaminated packaging:**

Containers may still present chemical hazard when empty. Keep away from heat and ignition source of fire. Return to supplier for recycling if possible.

**Disposal recommendations:**

Refer to section waste chemicals and contaminated packaging.

## 14. TRANSPORT INFORMATION

Transporting label:



US DOT (49CFR)

UN Numbers: 3480

UN proper shipping name: LITHIUM-ION BATTERIES

Transport hazard class:9

Packing group: Packaging shall conform to the packing group II performance level.

## 15. REGULATORY INFORMATION

Directive (EU)2023/1542 and 2013/56/EU:

The label, disposal and recycling of the battery shall meet the requirements of EU Directive (EU)2023/1542 and 2013/56/EU.

Follow all regulations in your country.

## 16. OTHER INFORMATION

Editing date:

November 1, 2023

Department: SONEPAR GLOBAL SOURCING SA