

# Material Safety Data Sheet

## 1. Identification of the substance/mixture and of the company/undertaking

<b>Product name:</b>	Lithium battery, non-rechargeable
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Size	Nominal Voltage	Capacity	Energy content
ER14250 (½ AA)	3.6 V	1200 mAh	4.32 Wh

<b>Manufacturer:</b>	Conrad Electronic SE
<b>Address:</b>	Klaus-Conrad-Str. 1, D-92240 Hirschau
<b>Telephone:</b>	+49 (0) 9604 / 40 - 8988
<b>Date of issue:</b>	03.01.2023

## 2. Composition And Information About The Ingredients

Chemical System: Lithium and Thionyl Chloride (Li-SOCl<sub>2</sub> Battery)

Ingredient	Percent	CAS Index No./EC No.	Molecular formula
Carbon	28.6%	7440-44-0	C
Lithium	1.0%	7439-93-2	Li
Solvent	26.3%	7719-09-7	SOCl <sub>2</sub>
Lithium Salt	5.9%	N/A	N/A
Fiberglass	2.7%	N/A	N/A
Stainless Steel	32.2%	7439-89-6	Fe

Remark: The weight of metallic lithium per cell is <1.0 g.

## 3. Hazards Identification

**Routes of Entry:** Inhalation - Yes  
 Skin - Yes  
 Ingestion - Yes

### Health Hazards (Acute and Chronic):

These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. The most likely risk is an acute exposure when the gas release vent works. Organic solvent has slight toxicity and can irritate skin and eyes. Lithium salt is irritating to skin, eyes and mucous membranes and should be avoided.

### Carcinogenicity:

NTP: None

IARC Monograph: None

OSHA Regulated: None

### Medical Conditions Generally Aggravated by Exposure:

An acute exposure will not generally aggravate any medical condition.

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### 4. First Aid Measures

**After skin contact:**

In case of skin contact with contents of battery, flush immediately with water. If irritation persists, get medical help.

**After eye contact:**

For eye contact, flush with copious amounts of water for 15 minutes. Do not inhale leaked material. If irritation persists, get medical help.

### 5. Fire Fighting Measures

**Extinguishing Media:**

CO<sub>2</sub>

**Flammable Limits:**

Not available.

### 6. Accidental Release Measures

The preferred response is to leave the area and allow the batteries to cool and the vapors to dissipate. Avoid skin contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

### 7. Handling and storage

Avoid mechanical or electrical abuse. Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

### 8. Exposure Controls/Personal Protection

**Specific control parameter:**

**Personal protective equipment:**

Respiratory protection:	Not necessary under conditions of normal use
Ventilation:	Not necessary under conditions of normal use
Protective Gloves:	Not necessary under conditions of normal use
Eye protection:	Not necessary under conditions of normal use
Other protection (Clothing or Equipment):	Not necessary under conditions of normal use

### 9. Physical and Chemical Properties

**Specific Gravity:** (H<sub>2</sub>O=1): C: 0.667

**Melting point (°C):** C decomposes at 3500 °C

C is a black, odorless powder.

Lithium is a soft, silvery metal.

Organic solvent is an odorless, colorless or light yellow liquid.

Lithium salt is a white, crystalline and odorless powder.



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### **15. Regulatory Information**

The batteries have been classified as non-dangerous goods and are therefore not regulated.

### **16. Other Information**

The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. We make no warranty, expressed or implied, with respect to this information and disclaims all liabilities from reliance on it.