

Item no.: 651241

## Material Safety Data Sheet

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### 1. Product & Company Identification:

<b>Product:</b>	Lithium Metal Battery (size 1/2 AA, type ER 14250 AX)
<b>Nominal voltage:</b>	3.6 V
<b>Nominal capacity:</b>	1200 mAh
<b>Manufacturer:</b>	Conrad Electronic SE
<b>Address:</b>	Klaus-Conrad-Strasse 1, D-92240 Hirschau
<b>Telephone:</b>	+49 (0) 9604 / 40 - 8988
<b>Date of issue:</b>	10.03.2014

### 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	4.3%	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 &lt; 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

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### 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.

### 10. Stability and Reactivity

Stability: Stable

Conditions to Avoid: Do not heat, disassemble or charge.

Hazardous Decomposition or By-products: N/A

Hazardous polymerization will not occur.

### 11. Toxicological information

Acute toxicity: Organic solvent

Further toxicological information: Lithium

### 12. Ecological Information

Ecotoxic effects: N/A

Further ecological data: N/A

