

# **Safety Data Sheet**

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This Safety Data Sheet (SDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a SDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

**Document Group:** 23-6319-0 **Version Number:** 2.00 07/03/14 **Supercedes Date:** 05/29/09 **Issue Date:** 

### **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>TM</sup> Xcel BT1 Lithium cell Battery

### **Product Identification Numbers**

78-0070-0111-4

### 1.2. Recommended use and restrictions on use

### Recommended use

Power source for test/measurment equipment.

1.3. Supplier's details

**MANUFACTURER:** 3M

Food Safety Department **DIVISION:** 

**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA 1-888-3M HELPS (1-888-364-3577) **Telephone:** 

# 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

# **SECTION 2: Hazard identification**

### 2.1. Hazard classification

This product is exempt from hazard classification according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### 2.2. Label elements

### Signal word

Not applicable.

### **Symbols**

Not applicable.

### **Pictograms**

Not applicable.

### 2.3. Hazards not otherwise classified

None.

# **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
Lithium Cobalt Oxide	Unknown	25 - 35
Carbon	7440-44-0	10 - 30
Organic Carbonates	Unknown	5 - 20
Steel, Nickel and inert metals	Unknown	5 - 10
Lithium Salts	Unknown	1 - 10
Polymer	173357-61-4	0.1 - 1
Copper	7440-50-8	0.1 - 1
Aluminum	7429-90-5	0.1 - 1

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### **Inhalation:**

No need for first aid is anticipated.

### **Skin Contact:**

No need for first aid is anticipated.

### **Eye Contact:**

No need for first aid is anticipated.

### If Swallowed:

No need for first aid is anticipated.

### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

# **SECTION 5: Fire-fighting measures**

### 5.1. Suitable extinguishing media

DO NOT USE WATER Use a fire fighting agent suitable for the surrounding fire.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

# **SECTION 6: Accidental release measures**

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### 6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. Observe precautions from other sections.

### 6.2. Environmental precautions

Not applicable.

### 6.3. Methods and material for containment and cleaning up

Not applicable.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

### 7.2. Conditions for safe storage including any incompatibilities

Not applicable.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### Occupational exposure limits

Ingredient	C.A.S. No.	Agency	Limit type	<b>Additional Comments</b>
Aluminum	7429-90-5	ACGIH	TWA(respirable fraction):1	
			mg/m3	
Aluminum	7429-90-5	OSHA	TWA(as Al respirable dust):5	
			mg/m3;TWA(as Al total	
			dust):15 mg/m3	
Carbon	7440-44-0	CMRG	TWA:3 fiber/cc	
Copper	7440-50-8	ACGIH	TWA(as Cu dust or mist):1	
			mg/m3;TWA(as Cu, fume):0.2	
			mg/m3	
Copper	7440-50-8	OSHA	TWA(as Cu dust or mist):1	
			mg/m3;TWA(as Cu, fume):0.1	
			mg/m3	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

### 8.2.1. Engineering controls

No engineering controls required.

# 8.2.2. Personal protective equipment (PPE)

### Eye/face protection

Eye protection not required.

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### **Skin/hand protection**

No chemical protective gloves are required.

### **Respiratory protection**

Respiratory protection is not required.

# **SECTION 9: Physical and chemical properties**

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

**General Physical Form:** Solid **Specific Physical Form:** Battery

Odor, Color, Grade: Lithium cobalt oxide type battery.

**Odor threshold** No Data Available pН Not Applicable **Melting point** Not Applicable Not Applicable **Boiling Point Flash Point** Not Applicable **Evaporation rate** Not Applicable Not Classified Flammability (solid, gas) Not Applicable Flammable Limits(LEL) Not Applicable Flammable Limits(UEL) **Vapor Pressure** Not Applicable **Vapor Density** Not Applicable **Density** Not Applicable **Specific Gravity** Not Applicable

Solubility in Water Nil

No Data Available Solubility- non-water Partition coefficient: n-octanol/ water No Data Available Not Applicable **Autoignition temperature Decomposition temperature** No Data Available Viscosity Not Applicable Percent volatile Not Applicable

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Sparks and/or flames

### 10.5. Incompatible materials

Not determined

### 10.6. Hazardous decomposition products

Substance

Condition

Carbon monoxide Carbon dioxide Oxidation, heat or reaction Oxidation, heat or reaction

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### **Inhalation:**

No health effects are expected.

#### **Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation.

### **Eye Contact:**

Contact with the eyes during product use is not expected to result in significant irritation.

### **Ingestion:**

No health effects are expected.

### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

# **Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
Carbon	Dermal		LD50 estimated to be > 5,000 mg/kg
Carbon	Inhalation-	Rat	LC50 > 2.1 mg/l
	Dust/Mist		
	(4 hours)		
Carbon	Ingestion	Rat	LD50 > 2,000 mg/kg
Aluminum	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminum	Ingestion		LD50 estimated to be > 5,000 mg/kg
Aluminum	Inhalation-	Rat	LC50 > .888 mg/l
	Dust/Mist		
	(4 hours)		

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
Carbon	Rabbit	No significant irritation
Aluminum	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Carbon	Rabbit	Mild irritant
Aluminum	Rabbit	No significant irritation

### **Skin Sensitization**

Name	Species	Value
Aluminum	Guinea	Not sensitizing
	pig	

**Respiratory Sensitization** 

Name	Species	Value
Aluminum	Human	Some positive data exist, but the data are not
		sufficient for classification

**Germ Cell Mutagenicity** 

Name	Route	Value
Aluminum	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value

### Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure
					Duration

### Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure
						Duration

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Aluminum	Inhalation	nervous system   respiratory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure

**Aspiration Hazard** 

Na	ume	Value

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

# **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

# **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

# **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

EPA Hazardous Waste Number (RCRA): Not regulated

# **SECTION 14: Transport Information**

For Transport Information, please visit <a href="http://3M.com/Transportinfo">http://3M.com/Transportinfo</a> or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: Regulatory information**

# 15.1. US Federal Regulations

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: Other information**

### **NFPA Hazard Classification**

Health: 0 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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