

# SAFETY DATA SHEET

Report No.: CMC211108037M01

Name of sample: Lithium thionyl chloride battery

Model: ER14505M

Type: 3.6V, 1800mAh

Client: Akku Tronics New Energy Technology Co., Limited

Address: Rm 529, Huichao Bldg, Yintian Industrial Area, 4008  
Bao'an Avenue, Shenzhen, China.

Written: *Mia chen* Approved: *Dylan Dou*

Reviewed: *Meiko Ma*

Date of issue: 2022.01.01 Seal of CMC:



## CMC Testing International (Shenzhen) Co., Ltd.

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### Safety Data Sheet

## Section 1- Identification of the Substance/Preparation and of the Company/Undertaking

## (a) Product identifier

Name of Sample	Lithium thionyl chloride battery	Weight	19.9g
		Size (D×H)	(14.9×50.6) mm
Model	ER14505M		

## (b) Other means of identification

**Synonyms:** None

## (c) Recommended use of the chemical and restrictions on use

**Recommended use:** LITHIUM BATTERIES

**Restriction on use:** No information available.

## (d) Details of the supplier of the product

Manufacturer	Akku Tronics New Energy Technology Co., Limited
Manufacturer's Address	Rm 529, Huichao Bldg, Yintian Industrial Area, 4008 Bao'an Avenue, Shenzhen, China.
Contact Person	Ms. Liu
E-mail	dolly@akkutronics.com
Telephone:	+86-755-85290393
Fax:	--
(e) Emergency phone number	+86-755-85290393

## Section 2- Hazards Identification

## (a) Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) This product is an article which is a sealed battery and as such does not require an MSDS per the OSHA hazard communication standard unless ruptured. The hazards indicated are for a ruptured battery.

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Gases)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2

Serious eye damage/eye irritation	Category 2
Reproductive Toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

**(b) GHS Label elements, including precautionary statements**
**Emergency Overview**

**Signal word:** Danger

**Hazard Statements**

Harmful if swallowed

Causes severe skin burns and eye damage

May cause an allergic skin reaction

Suspected of causing cancer

Causes damage to organs through prolonged or repeated exposure



This product is an article which contains a chemical substance. Safety information is given for exposure to the article as sold. Intended use of the product should not result in exposure to the chemical substance This is a battery. In case of rupture: the above hazards exist.

**Appearance** Blue

**Physical State** Solid

**Odor** Odorless

**Precautionary Statements-  
Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Do not eat, drink or smoke when using this product  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves

**Precautionary Statements-  
Response**

IF EXPOSED OR CONNECTED: Get medical advice/attention. Specific treatment (see supplemental first aid/instruction on this label).  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician.  
 IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and water before reuse, if skin irritation or rash occurs: get medical advice/attention if feel unwell.  
 IF INHALATION: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing

	respiratory symptoms: Call a poison center or doctor/physician. IF SWALLOWED: Rinse mouth, do not induce vomiting, call a poison center or doctor/physician if feel unwell.
<b>Precautionary Statements-Storage</b>	Store locked up
<b>Precautionary Statements-Disposal</b>	Dispose of contents/container to an approved waste disposal plant
<b>(c) Hazards not otherwise classified (HNOC)</b>	Not applicable
<b>(d) Unknown Toxicity</b>	
<b>(e) Other information</b>	Very toxic to aquatic life with long lasting effects; Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
<b>(f) Interactions with Other Chemicals</b>	No information available.

## Section 3- Composition/Information on Ingredients

Chemical Name	CAS Number	Weight-%	Trade Secret
Thionyl Chloride	7719-09-7	28.6	*
Lithium Chloride	7447-41-8	2.15	*
Aluminium Trichloride	7446-70-0	6.75	*
Lithium	7439-93-2	3.13	*
Lead	7439-92-1	Not Detected	*
Cadmium	7440-43-9	Not Detected	*
Mercury	7439-97-6	Not Detected	*

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

## Section 4- First Aid Measures

**(a) Description of first aid measures**

<b>General Advice</b>	First aid is upon rupture of sealed battery.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.
Skin contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required. May cause an allergic

	skin reaction. Remove and isolate contaminated clothing and shoes.
Inhalation:	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method, if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get medical attention immediately if symptoms occur.
Ingestion:	Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Self-protection of the first aider:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).
<b>(b) Most important symptoms/effects, acute and delayed</b>	
Most important symptoms and effects:	Itching. Coughing and/ or wheezing. Burning sensation.
<b>(c) Indication of any immediate medical attention and special treatment needed</b>	
Notes to Physician	Treat symptomatically. May cause sensitization of susceptible persons.

#### Section 4- First Aid Measures

##### (a) Description of first aid measures

<b>General Advice</b>	First aid is upon rupture of sealed battery.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.
Skin contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required. May cause an allergic skin reaction. Remove and isolate contaminated clothing and shoes.
Inhalation:	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method, if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary

	edema may occur. Get medical attention immediately if symptoms occur.
Ingestion:	Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Self-protection of the first aider:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).
<b>(b) Most important symptoms/effects, acute and delayed</b>	
Most important symptoms and effects:	Itching. Coughing and/ or wheezing. Burning sensation.
<b>(c) Indication of any immediate medical attention and special treatment needed</b>	
Notes to Physician	Treat symptomatically. May cause sensitization of susceptible persons.

#### Section 5- Fire Fighting Measures

##### (a) Extinguishing media

Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media:	CAUTION: Use of water spray when fighting fire may be inefficient.

##### (b) Special hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May cause sensitization by skin contact.

<b>Hazardous Combustion Products</b>	Carbon oxides.	
<b>Explosion Data</b>	<b>Sensitivity to Mechanical Impact:</b>	No.
	<b>Sensitivity to Static Discharge:</b>	No.

##### (c) Special protective equipment and precautions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### Section 6- Accidental Release Measures

##### (a) Personal precautions, protective equipment and emergency procedures

<b>Personal Precautions:</b>	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
<b>Other Information:</b>	Refer to protective measures listed in Sections 7 and 8.

##### (b) Environmental Precautions

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

**(c) Methods and materials for containment and cleaning up**

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers.

Section 7- Handling and Storage

**(a) Precautions for safe handling**

<b>Handling:</b>	Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
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**(b) Conditions for safe storage, including any incompatibilities**

<b>Storage:</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.
<b>Incompatible Products:</b>	Strong acids. Strong oxidizing agents. Strong bases.

Section 8 - Exposure Controls/Personal Protection

**(a) Control parameters**

<b>Exposure Guidelines</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>NIOSH IDLH</b>
Manganese dioxide 1313-13-9	TWA: 0.02 mg/m <sup>3</sup> Mn TWA: 0.1 mg/m <sup>3</sup> Mn	(vacated) Ceiling: 5 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 500 mg/m <sup>3</sup> Mn TWA: 1 mg/m <sup>3</sup> Mn STEL: 3 mg/m <sup>3</sup> Mn
Graphite 7782-42-5	TWA: 1 mg/m <sup>3</sup> respirable fraction all forms except graphite fibers	TWA: 15 mg/m <sup>3</sup> total dust synthetic TWA: 5 mg/m <sup>3</sup> respirable fraction Synthetic (vacated) TWA: 2.5 mg/m <sup>3</sup> respirable dust natural (vacated) TWA: 10 mg/m <sup>3</sup> total dust synthetic (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction synthetic	IDLH: 1250 mg/m <sup>3</sup> TWA: 2.5 mg/m <sup>3</sup> respirable dust

		TWA: 15 mppcf natural	
Chromium 7440-47-3	TWA: 0.5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> (vacated) TWA: 1 mg/m <sup>3</sup>	IDLH: 250 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup>

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

<b>Other Exposure Guidelines</b>	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters
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### (b) Appropriate engineering controls

<b>Engineering Measures</b>	Showers Eyewash stations Ventilation systems
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### (c) Individual protection measures, such as personal protective equipment.

<b>Eye/Face Protection:</b>	None required for consumer use. If there is a Hazard of contact: Tight sealing safety goggles. Face protection shield.
<b>Skin and Body Protection:</b>	None required for consumer use. If there is a Hazard of contact: Wear protective gloves and protective clothing.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all contaminated protective equipment before re-use. No information available.

## Section 9- Physical and Chemical Properties

### (a) Physical State

<b>Physical state:</b>	Solid		
<b>Appearance:</b>	Blue Cylindrical	<b>Odor:</b>	Odorless
<b>Color:</b>	Blue	<b>Odor Threshold:</b>	No information available

### (b) Chemical Properties

Property	Values	Remarks/ Method
pH	No data available	None known
Melting point/freezing point	No data available	None known
Initial Boiling Point And Boiling Range	No data available	None known



<b>Flash Point</b>	No data available	None known
<b>Evaporation Rate</b>	No data available	None known
<b>Flammability (Solid, Gas)</b>	No data available	None known
<b>Upper/Lower Flammability Or Explosive Limits</b>	No data available	
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Relative Density</b>	No data available	None known
<b>Solubility(ies)</b>	Insoluble in water	None known
<b>Partition Coefficient: N-Octanol/Water</b>	No data available	None known
<b>Auto-Ignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Explosive properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	
<b>(c) Other Information</b>		
<b>Softening Point</b>	No data available	
<b>VOC Content (%)</b>	No data available	
<b>Particle Size</b>	No data available	
<b>Particle Size Distribution</b>	No data available	

## Section 10 – Stability and Reactivity

<b>(a) Reactivity</b>	No data available.
<b>(b) Chemical stability</b>	Stable under recommended storage conditions.
<b>(c) Possibility of hazardous reactions</b>	None under normal processing.
<b>(d) Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>(e) Conditions to avoid</b>	None known based on information supplied.
<b>(f) Hazardous decomposition products</b>	Carbon oxides.

## Section 11 – Toxicological Information

**(a) Information on the likely routes of exposure**

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information. In case of rupture:
<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye Contact</b>	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to eyes. May cause redness, itching, and pain. May cause temporary eye irritation.
<b>Skin Contact</b>	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May be absorbed through the skin in harmful amounts. Harmful in contact with skin.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Iron 7439-89-6	=984 mg/kg ( Rat )	-	-
Manganese dioxide 1313-13-9	=9000 mg/kg ( Rat )	> 20 mL/kg ( Rabbit )	-
Propylene carbonate 108-32-7	=29000 mg/kg ( Rat )	-	-
Graphite 7782-42-5	>10000 mg/kg ( Rat )	-	-

**(b) Information on toxicological effects**

<b>Symptoms</b>	Erythema (skin redness). May cause redness and tearing of the eyes. Itching. Rashes. Hives.
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**(c) Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Sensitization:</b>	May cause sensitization of susceptible persons. May cause sensitization by skin contact.			
<b>Mutagenic Effects:</b>	No information available.			
<b>Carcinogenicity:</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen.			
Chemical Name	ACGIH	IARC	NTP	OSHA
Chromium 7440-47-3		Group3		
<b>IARC (International Agency for Research on Cancer)</b>				
<b>Group 3 - Not Classifiable as to Carcinogenicity in Humans</b>				
<b>Reproductive Toxicity</b>	Contains a known or suspected reproductive toxin			
<b>STOT - single exposure</b>	No information available.			

<b>STOT - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).
<b>Chronic Toxicity</b>	No known effect based on information supplied. Contains a known or suspected reproductive toxin. Possible Hazard of irreversible effects. Avoid repeated exposure. Prolonged exposure may cause chronic effects. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Carcinogenic potential is unknown.
<b>Target Organ Effects</b>	Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Central Vascular System (CVS).Kidney. Liver. Lungs. Heart.
<b>Aspiration Hazard</b>	No information available.

**(d) Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document	<b>ATEmix (oral):</b>	
	<b>ATEmix (inhalation-gas)</b>	
	<b>ATEmix (inhalation-dust/mist)</b>	
	<b>ATEmix (inhalation-vapor)</b>	

## Section 12-Ecological Information

**(a) Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Iron 7439-89-6		96h LC50: = 13.6 mg/L (Morone saxatilis)		
Propylene carbonate 108-32-7	72h EC50: > 500 mg/L (Desmodesmus subspicatus)	96h LC50: > 1000 mg/L (Cyprinus carpio) 96h LC50: = 5300 mg/L (Leuciscus idus)	EC50 > 10000 mg/L 17 h	48h EC50: > 500 mg/L

**(b) Persistence and Degradability**

No information available.

**(c) Bioaccumulation**

Chemical Name	Log Pow
Manganese dioxide 1313-13-9	<0
Propylene carbonate	0.48

108-32-7

**(d) Other adverse effects**

No information available.

## Section 13 – Disposal Considerations

**(a) Waste treatment methods**
**Disposal methods:** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261).

**Contaminated Packaging:** Dispose of contents/containers in accordance with local regulations.

**US EPA Waste Number:** D007

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Chromium 7440-47-3		Included in waste streams:F032, F034, F035, F037, F038, F039	5.0 mg/L regulatory level	

**California Hazardous Waste Codes 141**

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Chromium 7440-47-3	Toxic Corrosive Ignitable
Lithium 7439-93-2	Corrosive Ignitable Reactive
Molybdenum 7439-98-7	Ignitable powder

## Section 14 – Transport Information

**(a) UN number** 3090 & 3091

**(b) Proper shipping name**

 Lithium metal batteries (including lithium alloy batteries) or;  
 Lithium metal batteries packed with equipment (including lithium alloy batteries) or;  
 Lithium metal batteries contained in equipment (including lithium alloy batteries).

**(c) Label(s) / Placard Required:**

 Miscellaneous  
 Lithium BATT

**(d) Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**
**ICAO / IATA:**

 Can be shipped by air in accordance with International Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA), DGR Packing Instructions (PI) 968 Section IB, PI 969 Section II and PI 970 Section II appropriate of IATA DGR 63<sup>rd</sup> (2022 Edition) for transportation.

<b>IMDG CODE:</b>	The batteries are not restricted to IMDG Code 2020 Edition (Amdt 40-20) according to special provision 188.
<b>DOT:</b>	Other requirements for the US Department of Transportation (DOT) Subchapter C, Hazardous Materials Regulations if shipped in compliance with 49 CFR 173.185.
<b>ADR/ ADN:</b>	The batteries are not subject to the provisions of United Nations Economic Commission for Europe (UNECE) ADR/ADN if they meet the requirements of special provision 188 of Chapter 3.3. Applicable as from 1 January 2021.

In addition, to be permitted in transport each lithium cell and battery types must have passed the applicable tests set out in Subsection 38.3 of the UN Manual of Tests and Criteria.

### Section 15 – Regulatory Information

<b>(a) International Inventories</b>	
<b>TSCA:</b>	Complies.
<b>DSL:</b>	All components are listed either on the DSL or NDSL.
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List	

### **(b) US Federal Regulations**

<b>SARA 313</b>
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 – Threshold Values %
Manganese dioxide	1313-13-9	10-30	1.0
Ethylene glycol dimethyl ether	110-71-4	5-10	1.0
Chromium	7440-47-3	1-5	1.0

### **SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Chromium 7440-47-3		X	X	

### **CERCLA**

**This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)**

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Chromium 7440-47-3	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

### (c) US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Manganese dioxide 1313-13-9			X	X	X
Ethylene glycol dimethyl ether 110-71-4	X	X	X	X	X
Graphite 7782-42-5	X	X	X	X	X
Chromium 7440-47-3	X	X	X	X	X
Lithium 7439-93-2	X	X	X		
Molybdenum 7439-98-7	X	X	X		

### (d) International Regulations

#### Mexico

#### National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Manganese dioxide 1313-13-9		Mexico: TWA=0.2 mg/m <sup>3</sup>
Graphite 7782-42-5		Mexico: TWA= 2 mg/m <sup>3</sup>
Chromium 7440-47-3		Mexico: TWA= 0.5 mg/m <sup>3</sup>

Mexico - Occupational Exposure Limits - Carcinogens

**Canada**

**WHMIS Hazard Class**

Non-controlled

Section 16 – Additional Information

<b>NFPA</b>	<b>Health Hazards</b>	1	<b>Flammability</b>	0	<b>Instability</b>	0	<b>Physical and Chemical Hazards</b>	-
<b>HMIS</b>	<b>Health Hazards</b>	0	<b>Flammability</b>	0	<b>Physical Hazard</b>	0	<b>Personal Protection</b>	X

**Revision Note:** No information available

**Sample photo:**



**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

\*\*\*\*\***End of report**\*\*\*\*\*

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