

# SAFETY DATA SHEET

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

### Product identifier

**Product Name** MITSUBISHI Li-Mn Button Cell CR2032

### Other means of identification

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Lithium Primary/Metal Batteries

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Name** GUANGZHOU TIANQIU ENTERPRISE CO., LTD.

**Supplier Address** 9/F TianQiu Business Building No.16-30, He Yi Rd., San Yuan Li Ave., GuangZhou China  
GUANGZHOU  
GUANDONG  
510410  
CN

**Supplier Phone Number** Phone:8620-36322277  
Fax:8620-36323339  
Contact Phone 8613825131170

**Supplier Email** qd@gztianqiu.com

### Emergency telephone number

**Company Emergency Phone Number** 8620-13825131170

## 2. HAZARDS IDENTIFICATION

### 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  |

**GHS Label elements, including precautionary statements**

**Emergency Overview**

|                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                        |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <b>Signal word</b>                                                                                                                                                                                                                                                                    | <b>Danger</b>                                                                                                                                                                                                          |                               |
| <b>Hazard Statements</b>                                                                                                                                                                                                                                                              | Harmful if swallowed<br>Harmful if inhaled<br>Causes skin irritation<br>Causes serious eye irritation<br>May damage fertility or the unborn child<br>May cause 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. |                                                                                                                                                                                                                        |                               |
| <b>Appearance</b>                                                                                                                                                                                                                                                                     | Silver                                                                                                                                                                                                                 | <b>Physical state</b> Solid   |
|                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                        | <b>Odor</b> No data available |

**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 eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wear eye/face protection

**Precautionary Statements - Response**

- IF exposed or concerned: Get medical advice/attention
- Specific treatment (see supplemental first aid instructions on this label)

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention

**Skin**



IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation occurs: Get medical advice/attention  
 Take off contaminated clothing and wash before reuse

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Ingestion**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

3.4 % of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

Very toxic to aquatic life with long lasting effects

**Interactions with Other Chemicals**

Use of alcoholic beverages may enhance toxic effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                  | CAS No    | Weight-% | Trade Secret |
|--------------------------------|-----------|----------|--------------|
| Iron                           | 7439-89-6 | 30 - 60  | *            |
| Manganese dioxide              | 1313-13-9 | 10 - 30  | *            |
| Propylene carbonate            | 108-32-7  | 3 - 7    | *            |
| Ethylene glycol dimethyl ether | 110-71-4  | 1 - 5    | *            |
| Graphite                       | 7782-42-5 | 1 - 5    | *            |
| Lithium                        | 7439-93-2 | 1 - 5    | *            |

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

### 4. FIRST AID MEASURES

**First aid measures****General Advice**

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. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.



|                                           |                                                                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.              |
| <b>Inhalation</b>                         | Remove to fresh air. Get medical attention immediately if symptoms occur.                                                                           |
| <b>Ingestion</b>                          | Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician. |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).        |

**Most important symptoms and effects, both acute and delayed**

|                                            |                                                                        |
|--------------------------------------------|------------------------------------------------------------------------|
| <b>Most Important Symptoms and Effects</b> | Burning sensation. Coughing and/ or wheezing. Difficulty in breathing. |
|--------------------------------------------|------------------------------------------------------------------------|

**Indication of any immediate medical attention and special treatment needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

## 5. FIRE-FIGHTING MEASURES

**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.

**Specific hazards arising from the chemical**

No information available.

**Hazardous Combustion Products**

Carbon oxides.

|                                              |                    |
|----------------------------------------------|--------------------|
| <b>Physical/Chemical Reaction Properties</b> | No data available. |
|----------------------------------------------|--------------------|

**Explosion Data**

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** No.

**Protective equipment and precautions for firefighters**

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

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Avoid generation of dust. Do not breathe dust. Evacuate personnel to safe areas.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions**

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

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling** In case of rupture: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

**Incompatible Products** Strong acids. Strong oxidizing agents. Strong bases.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

| Chemical Name                  | ACGIH TLV                                                                           | OSHA PEL                                                                                                                                               | NIOSH IDLH                                                                                    |
|--------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Manganese dioxide<br>1313-13-9 | TWA: 0.02 mg/m <sup>3</sup> Mn<br>TWA: 0.1 mg/m <sup>3</sup> Mn                     | (vacated) Ceiling: 5 mg/m <sup>3</sup><br>Ceiling: 5 mg/m <sup>3</sup> Mn                                                                              | IDLH: 500 mg/m <sup>3</sup> Mn<br>TWA: 1 mg/m <sup>3</sup> Mn<br>STEL: 3 mg/m <sup>3</sup> Mn |
| Graphite<br>7782-42-5          | TWA: 2 mg/m <sup>3</sup> respirable<br>fraction all forms except graphite<br>fibers | TWA: 15 mg/m <sup>3</sup> total dust<br>synthetic<br>TWA: 5 mg/m <sup>3</sup> respirable<br>fraction synthetic<br>(vacated) TWA: 2.5 mg/m <sup>3</sup> | IDLH: 1250 mg/m <sup>3</sup><br>TWA: 2.5 mg/m <sup>3</sup> respirable<br>dust                 |



|  |  |                                                                                                                                                                                        |  |
|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  | respirable dust natural<br>(vacated) TWA: 10 mg/m <sup>3</sup> total<br>dust synthetic<br>(vacated) TWA: 5 mg/m <sup>3</sup><br>respirable fraction synthetic<br>TWA: 15 mppcf natural |  |
|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

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

**Other Exposure Guidelines** 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

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** If splashes are likely to occur: Wear safety glasses with side shields (or goggles). None required for consumer use.

**Skin and body protection** Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not breathe dust. Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and Chemical Properties**

|                       |                          |                       |                          |
|-----------------------|--------------------------|-----------------------|--------------------------|
| <b>Physical state</b> | Solid                    | <b>Odor</b>           | No data available        |
| <b>Appearance</b>     | Silver                   | <b>Odor Threshold</b> | No information available |
| <b>Color</b>          | No information available |                       |                          |

| <u>Property</u>                        | <u>Values</u>     | <u>Remarks</u> | <u>Method</u> |
|----------------------------------------|-------------------|----------------|---------------|
| pH                                     | No data available | None known     |               |
| Melting / freezing point               | No data available | None known     |               |
| Boiling point / boiling range          | No data available | None known     |               |
| Flash Point                            | No data available | None known     |               |
| Evaporation Rate                       | No data available | None known     |               |
| Flammability (solid, gas)              | No data available | None known     |               |
| Flammability Limit in Air              |                   |                |               |
| Upper flammability limit               | No data available |                |               |
| Lower flammability limit               | No data available |                |               |
| Vapor pressure                         | No data available | None known     |               |
| Vapor density                          | No data available | None known     |               |
| Specific Gravity                       | 0                 | None known     |               |
| Water Solubility                       | Negligible        | None known     |               |
| Solubility in other solvents           | No data available | None known     |               |
| Partition coefficient: n-octanol/water | No data available | None known     |               |



|                                  |                   |            |
|----------------------------------|-------------------|------------|
| <b>Autoignition 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 |            |

**Other Information**

|                                   |                   |
|-----------------------------------|-------------------|
| <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> |                   |

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Excessive heat.

**Incompatible materials**

Strong acids. Strong oxidizing agents. Strong bases.

**Hazardous Decomposition Products**

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

**Information on 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. Harmful by inhalation. (based on components).                                                                                                |
| <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. Expected to be an irritant based on components. Irritating to skin. Prolonged contact may cause redness and irritation.                                                                 |
| <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. (based on components). |



**Component Information**

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

**Information on toxicological effects**

**Symptoms** Erythema (skin redness). May cause redness and tearing of the eyes. Coughing and/ or wheezing.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

**Reproductive toxicity** Contains a known or suspected reproductive toxin.

**STOT - single exposure** No information available.

**STOT - repeated exposure** 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).

**Chronic Toxicity** Contains a known or suspected reproductive toxin. Possible risk of irreversible effects. Avoid repeated exposure. Prolonged exposure may cause chronic effects. May cause adverse effects on the bone marrow and blood-forming system.

**Target Organ Effects** Respiratory system. Eyes. Skin. Reproductive System. Blood. Central Nervous System (CNS). Central Vascular System (CVS). Kidney. Cardiovascular system. Liver.

**Aspiration Hazard** No information available.

**Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)**

917.00 mg/kg

**ATEmix (inhalation-gas)**

13,554.00 ppm (4 hr)

**ATEmix (inhalation-dust/mist)**

4.50 mg/l

**ATEmix (inhalation-vapor)**

33.00 ATEmix





## 12. ECOLOGICAL INFORMATION

### 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<br>7439-89-6               |                                                            | 96h LC50: = 13.6 mg/L<br>( <i>Morone saxatilis</i> )                                                   |                            |                            |
| Propylene carbonate<br>108-32-7 | 72h EC50: > 500 mg/L<br>( <i>Desmodesmus subspicatus</i> ) | 96h LC50: > 1000 mg/L<br>( <i>Cyprinus carpio</i> ) 96h LC50:<br>= 5300 mg/L ( <i>Leuciscus idus</i> ) | EC50 > 10000 mg/L 17 h     | 48h EC50: > 500 mg/L       |

### Persistence and Degradability

No information available.

### Bioaccumulation

| Chemical Name                   | Log Pow |
|---------------------------------|---------|
| Manganese dioxide<br>1313-13-9  | <0      |
| Propylene carbonate<br>108-32-7 | 0.48    |

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

#### 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         |
|----------------------|------------------------------------|
| Lithium<br>7439-93-2 | Corrosive<br>Ignitable<br>Reactive |

## 14. TRANSPORT INFORMATION



**Note:** The transportation of primary lithium cells and batteries is regulated by the International Civil Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment: 1. Air shipments must meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations. 2. Meet the requirements for the US Department of Transportation listed in 49 CFR 173.185. 3. The transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to the Federal Register December 15, 2004 (Hazardous Materials; Prohibited on the Transportation of Primary Lithium Batteries and Cells Aboard Passenger Aircraft; Final Rule)  
Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "Dangerous Goods" when shipped in accordance with "special provision A45 of IATA-DGR" or "special provision 188 of IMO-IMDG Code"

|                                        |                          |
|----------------------------------------|--------------------------|
| <b><u>DOT</u></b>                      | NOT REGULATED            |
| <b>Proper Shipping Name</b>            | NON-REGULATED            |
| <b>Hazard Class</b>                    | 9                        |
| <b>Emergency Response Guide Number</b> | 138                      |
| <b><u>TDG</u></b>                      | Not regulated            |
| <b><u>MEX</u></b>                      | Not regulated            |
| <b><u>ICAO</u></b>                     | Not regulated            |
| <b><u>IATA</u></b>                     | Not regulated            |
| <b>Proper Shipping Name</b>            | NON REGULATED            |
| <b>Hazard Class</b>                    | N/A                      |
| <b><u>IMDG/IMO</u></b>                 | Not regulated            |
| <b>Proper Shipping Name</b>            | NON-REGULATED PER SP 188 |
| <b>Hazard Class</b>                    | N/A                      |
| <b>EmS-No.</b>                         | F-A, S-I                 |
| <b><u>RID</u></b>                      | Not regulated            |
| <b><u>ADR</u></b>                      | Not regulated            |
| <b><u>ADN</u></b>                      | Not regulated            |

**15. REGULATORY INFORMATION**

**International Inventories**

|      |                                                      |
|------|------------------------------------------------------|
| TSCA | Complies                                             |
| DSL  | 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

**US Federal Regulations**

**SARA 313**

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             | 1313-13-9 | 10 - 30  | 1.0                           |
| Ethylene glycol dimethyl ether - 110-71-4 | 110-71-4  | 1 - 5    | 1.0                           |

**SARA 311/312 Hazard Categories**

|                                   |    |
|-----------------------------------|----|
| Acute Health Hazard               | No |
| Chronic Health Hazard             | No |
| Fire Hazard                       | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard                   | No |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

| Chemical Name                             | California Proposition 65                                               |
|-------------------------------------------|-------------------------------------------------------------------------|
| Lead - 7439-92-1                          | Carcinogen<br>Developmental<br>Female Reproductive<br>Male Reproductive |
| Cadmium and compounds (as Cd) - 7440-43-9 | Carcinogen<br>Developmental<br>Male Reproductive                        |
| Mercury - 7439-97-6                       | Developmental                                                           |

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

| Chemical Name                              | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|--------------------------------------------|------------|---------------|--------------|--------------|----------|
| Manganese dioxide<br>1313-13-9             |            |               | X            | X            | X        |
| Ethylene glycol dimethyl ether<br>110-71-4 | X          | X             | X            | X            | X        |
| Graphite<br>7782-42-5                      | X          | X             | X            |              |          |
| Lithium<br>7439-93-2                       | X          | X             | X            |              |          |

**International Regulations**

**Mexico**

**National occupational exposure limits**

| Component                                  | Carcinogen Status | Exposure Limits                    |
|--------------------------------------------|-------------------|------------------------------------|
| Manganese dioxide<br>1313-13-9 ( 10 - 30 ) |                   | Mexico: TWA= 0.2 mg/m <sup>3</sup> |
| Graphite<br>7782-42-5 ( 1 - 5 )            |                   | Mexico: TWA= 2 mg/m <sup>3</sup>   |

Mexico - Occupational Exposure Limits - Carcinogens



Canada  
WHMIS Hazard Class  
Not determined

**16. OTHER INFORMATION**

|             |                       |   |                     |   |                        |   |                                          |   |
|-------------|-----------------------|---|---------------------|---|------------------------|---|------------------------------------------|---|
| <b>NFPA</b> | <b>Health Hazards</b> | 0 | <b>Flammability</b> | 0 | <b>Instability</b>     | 0 | <b>Physical and<br/>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 |

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| <b>Prepared By</b>   | Product Stewardship<br>23 British American Blvd.<br>Latham, NY 12110<br>1-800-572-6501 |
| <b>Issuing Date</b>  | 27-Jun-2011                                                                            |
| <b>Revision Date</b> | 06-Feb-2015                                                                            |
| <b>Revision Note</b> | No information available                                                               |

**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 Safety Data Sheet**

