



# SDS Report

Prepared For :	Dantona Industries, Inc. 3051 Burns Ave. , Wantagh, NY 11793
Trademark:	Dantona or Ultralast
Product Name:	Lithium Manganese Dioxide button battery (LITHIUM METAL)
Model :UL or CR	CR2032, CR2016, CR2025, CR927, CR1025, CR1220, CR1225, CR1216, CR1616, CR1620, CR1632, CR2330, CR2354, CR2430, CR2450, CR2477, CR1130, CR2320, CR2325, CR1212, CR1530, CR1625, CR2030, CR2020, CR2012
Voltage:	3.0V
Prepared By :	Shenzhen HTT Technology Co., Ltd.
	7F,A Building,Smart valley Science and technology innovation Park, Xixiang,Baoan District,Shenzhen,Guangdong,China
Date of Report :	Jan.05,2018
Report No.:	HTT151208050MR

Written by: James Huang

Approved by: Robert Chen

Inspected by: Kevin



Date : Jan.05,2020



## Section 1- Chemical Product & Company Identification

Product Name: 3V Lithium Manganese Dioxide Coin type Batteries

Manufactured For: Dantona Industries Inc.

Address: 3051 Burns Ave, Wantagh, NY 11793

## Section 2- Hazards Identification

**Fatalness grade:** In accordance with Directive 1999/45/EC, the sample belongs to dangerous goods.

**Invasion route:** Skin touch: Skin contact with contents of an open battery can cause severe irritation.

Eye: Eye contact with contents of an open battery can cause irritation or burns to eyes.

Inhalation: Vapors from ruptured battery can cause respiratory irritation

Ingestion: Battery ingredients contained within can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.

**Health hazards:** These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. Contact of electrolyte and extruded lithium with skin and eyes should be avoided. Not dangerous with normal use, Do not open battery to expose contents.

**Environment hazards:**

**Burn & burst danger:** A shorted lithium battery can cause thermal and chemical burns upon contact with the skin. It may be a reproductive hazard.

## Section 3- Composition/Information on Ingredients

Pure

Admixture

Composition:

Chemical Name	In % By Weight	CAS No.
Manganese dioxide	37	1313-13-9
Graphite	3.5	7782-42-5
Lithium	2.5	7439-93-2
Lithium Percolate	1.0	7791-03-9
Ethylene Glycol Dimethy Ether	6.0	110-71-4
Propylene Carbonate	7.5	108-32-7
Iron	29	7439-89-6
Chromium	10.5	7440-47-3
Molybdenum	1.0	7439-98-7
Polypropylene	2.0	9003-07-0



## Section 4- First Aid Measures

**Skin touch:** Remove contaminated clothes and rinse the skin with plenty of water.

**Eyes touch:** Lifting the upper and lower eyelids, flush the eyes with plenty of water or saline water. Get medical aid.

**Inhalation:** Remove from exposure and move to fresh air immediately. Keep the respiratory tract smooth. Use oxygen if available. Get medical aid.

**Ingestion:** Drink sufficient hot water and induce vomiting. Get medical aid.

## Section 5- Fire Fighting Measures

**Danger characteristic:** Flames may occur under the condition when the electrolyte is extruded. Toxic fumes, gases, or vapors may be created during burning.

**Extinguishing Media:** Carbon monoxide, carbon dioxide, dry powder fire extinguisher.

**Fire-Fighting method & media:** The staff must equipped with filtermask(full mask) or isolated breathing apparatus. The staff must wear the clothes which can defence the fire and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible. Spraying water on the containers in the fireplace to keep them cool until finish extinguishment. If the containers in the fireplace whose color have changed, or can hear the voice from the safety relief equipment, the person must evacuate at once. Media: foam, powder, Co<sub>2</sub>, sandy clay.

## Section 6- Accidental Release Measures

**Emergency treatment:** If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the batteries to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent material and place into an acceptable waste container.

### **Waste Disposal Method.**

Dispose of according to local regulations. Prevent material from contaminating soil that may enter sewers or local waterways.

## Section 7- Handling and Storage

**Handling:** The batteries should not be opened, destroyed or incinerated, since they may leak or rupture and release into the environment the ingredients that they contain in the hermetically sealed



container. Do not short circuit terminals, or charge the battery, or throw in fire. Do not crush or puncture the battery, or immerse in liquids.

**Storage:** Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperature should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

## Section 8 - Exposure Controls/Personal Protection

**Maximum admissible concentration:** No standard yet

**Monitoring Method:** /

**Engineering Control:** None required for handling undamaged batteries.

**Respiratory Protection:** Wear self-contained breathing filtermask(full mask) if the battery is venting and fumes enter the air. Wear breathing apparatus under the condition of emergency rescue.

**Eyes Protection:** Have been mentioned in the respiratory protection.

**Body Protection:** Wear rubberized fabric anti-gas clothing.

**Hands Protection:** Not needed for normal handling. Wear rubber gloves only if battery is ruptured.

**Other Protections:** No smoking, dining and drinking water in the workplace. Keep good habit of hygiene.

## Section 9- Physical and Chemical Properties

**Flash Point:** N/A

**Appearance:** Silver colored button battery

**Boiling Point:** N/A

**Proportion:** N/A

**Acid Value:** N/A

**PH Value:** N/A

**Permission of solvent inhalation:** N/A

**Solubility:** Not soluble in water

N/A= Not applicable.



## Section 10 – Stability and Reactivity

**Stability:** Stable under normal temperature.

**Distribution of Ban:** Strong oxidizer and strong acid

**Conditions to Avoid:** Heating above 70 degrees C, mechanical abuse and electrical abuse.

**Hazardous Polymerization:** If leaking, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated hydrocarbons.

**Hazardous Decomposition Products:** Toxic fumes, and may form peroxides.

## Section 11 – Toxicological Information

/ = Not Applicable

**Acute Toxicity:** /

**Sub-acute and Chronic Toxicity:** /

**Irritation:** Only in circumstance of exposure to internal contents. Vapors may irritate eyes and skin.

**Sensitization:** /

**Mutagenicity:** /

**Carcinogenicity:** /

**Others:** /

## Section 12-Ecological Information

**Eco-toxicity: Ecological inert:** Do not allow undiluted product or large quantities of batteries to reach ground water, or sewage systems.

**Biodegradable:** Not applicable

**Non-biodegradable:** Not applicable

**Bioconcentration or biological accumulation:** Not applicable

**Other harmful effects:** Not applicable

## Section 13 – Disposal Considerations

**Waste disposal methods:** Refer to National or Local regulations before handling.

**Attention abandoned:** Deserted batteries shouldn't be treated as ordinary trash. Shouldn't be thrown into fire or places in high temperature, or be pierced, or crushed. Best disposal is recycling.



## Section 14 – Transport Information

This report applies to land, sea, and by air transportation.

Lithium Manganese Dioxide cells are protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to a short circuit.

The Lithium Manganese Dioxide cell can be shipped by air according to Section II / Section IB of Packing Instruction 969 thru 970 of the 2017 IATA Dangerous Goods regulations 58th edition.

With regard to transport, the following regulations are cited and considered

- The International Civil Aviation Organization (ICAO) Technical Instructions
- The International Air Transport Association (IATA) Dangerous Goods Regulations

UN number of Lithium battery: UN3090 or UN3091

UN Proper shipping name / Description: Lithium Metal Batteries

UN Classification (Transport Hazard Class): Class 9 (P1968 Section IB) pr N/A (P1968-970 Section II)

-The International Maritime Dangerous Goods (IMDG) Code

UN number of Lithium Battery: UN3090 or UN3091

UN proper shipping name: Lithium metal batteries

UN Classification (Transport Hazard Class): N/A

Marine pollutant (Y/N): Y

Need to meet the Special Provision: International maritime dangerous goods code (IMDG) 188, 230, 310, 348, 957

## Section 15 – Regulatory Information

**Regulatory Information:** Dangerous Goods Regulation (IATA),

International Maritime Dangerous Good (IMDG), Technical instructions for the safe transport of Dangerous Goods, Occupational Safety and Health Act (OSHA) Toxic Substance Control Act (TSCA), Consumer Product Safety Act (CPSA), Federal Environmental Pollution Control Act (FEPCA), California Proposition 65, Code of Federal Regulations (CFR)

### Law Information

In accordance with all Federal, State and Local laws.

## Section 16 – Additional Information

**References:** /

**Guidance departments:** /

**Data audit unit:** /



**Laws Help:** /

**Other Information:** The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

End of report